

**PCB TEST RESULTS FOLDERS  
FOR TRANSFORMERS**

These folders have test results for PCB tests which were done on various transformers placed throughout Ravenna Arsenal Army Ammunition Plant.

The folders are in order by dates.

Folders are in order by descending order, the most recent being on top.

This office references these test result sheets by our PCB Card File. This file is in order by Transformer Tag No. (APCO, POD, ROP, OR SN)

When questions are forwarded to this office concerning PCB Test Results the Tag Number is looked up in the PCB Card File, on this card the Tag Number is listed, also the test results, the Name of the Lab which did the test, the Lab ID Number, and the date the test was taken (see example).

When the date the test was taken is obtained then a cross reference check and verification can be done by going to the PCB Test Results Folder and looking under the date stated and pulling the test results for the individual transformer in question.

EXAMPLE TO FOLLOW FOR INDEX FILE

POD-2602

TRANSFORMER

PLANT

S/N 293203

LAB ID: 11308802

PCB CONC. (ppm): ND (NONE DETECTED LOWER DETECTABLE

LIMIT = 2 mg/kg

12/21/88



# IN STORAGE FOR REUSE

DATE PLACED IN STORAGE 1-15-69

PROPERTY NO. B 314891

TURN-IN NO. \_\_\_\_\_

## PCB TEST RESULTS

TEST DATE \_\_\_\_\_ PPM 0

PROPERTY No. B-314891

LAB I.D. No test taken (New)

SAMPLE No. No oil in unit

PP  
Rich



CUST: RAVENNA ARSENAL CITY: RAVENNA OH  
 SUB NAME: UNIT #: OTHER: LOCATION: DATE PRINTED: 8/16/89

**NAMEPLATE DATA**  
 MFG: KUHLMAN EQUIP TYPE: TRANSFORMER  
 DATE MFG: 947024 TRANS CLASS:  
 S/N: 50 IMPEDANCE:  
 KVA: PHASE CYCLE: OIL  
 PRI: LIQUID TYPE:  
 SEC: GAL LIQUID:

**ADDITIONAL EQUIPMENT**  
 RADIATORS: CONSERVATORS: YES  
 FANS: LTC COMP:  
 FILL TAPPED: PUSHING LOC:  
 OIL PUMPS: HOSE LENGTH:  
 TOP FPV: ENERGIZED:  
 BOTTOM FPV: POWER V.A.  
 OTHER ACCESS:

*ROP 18397*

**VISUAL INSPECTION**  
 PAINT CONDITION: LEAKS:

**FIELD SERVICE**

**PCB CONTENT / EXPRESSED IN PPM**

DATE OF SERVICE	1242 AROCLOR	1254 AROCLOR	1260 AROCLOR	OTHER	TOTAL CONTENT
7/14/89			-2		2

COLOR LABEL: GREEN CLASS: NON-PCB

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	LEVEL	TEMP	P/V	ACID	IFT	DIEL	COLOR	SP GR	VISUAL	SEGMENT
------	---------	-------	------	-----	------	-----	------	-------	-------	--------	---------

**GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	SERVICE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL	TOTAL
------	---------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	-------	-------

\* THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MA-LIFE RESULTS

CUST RAVENNA ARSENAL

CITY RAVENNA OH

ID # 00509400

DATE OF TEST

8/10/89

SUB NAME

UNIT #

OTHER

LOCATION

**NAMEPLATE DATA**

MFG KUHLMAN  
 DATE MFG 947026  
 S/N  
 KVA 500  
 PRI  
 SEC

EQUIP TYPE TRANSFORMER  
 TRANS CLASS  
 IMPEDANCE  
 PHASE/CYCLE  
 LIQUID TYPE OIL  
 GAL LIQUID

**ADDITIONAL EQUIPMENT** YES

RADIATORS  
 FANS  
 H2O COOLED  
 OIL PUMPS  
 TOP FPV  
 BOTTOM FPV  
 OTHER ACCESS

CONSERVATORS  
 LTC COMP  
 BUSHING LOC  
 HOSE LENGTH  
 ENERGIZED  
 POWER VIA

*ROF 18390*

**VISUAL INSPECTION**

PAINT CONDITION LEAKS

**FIELD SERVICE**

**PCB CONTENT / EXPRESSED IN PPM**

DATE OF SERVICE	1242 AROCLOR	1254 AROCLOR	1260 AROCLOR	OTHER	TOTAL CONTENT
7/14/89			3		3

COLOR LABEL GREEN CLASS NON-PCB

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	LEVEL	TEMP	P/V	ACID	IFT	DIEL	COLOR	SP	GP	VISUAL	SEDIMENT
------	---------	-------	------	-----	------	-----	------	-------	----	----	--------	----------

**GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	SERVICE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
------	---------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	-------------------	-----------

\* THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

CUST RAVENNA ARSENAL  
SUB NAME

CITY RAVENNA OH  
UNIT #

# 00509400  
LOCATION 8/10/89

**NAMEPLATE DATA**  
MFG KUHLMAN  
DATE MFG 947022  
S/N  
KVA 50  
PRI  
SEC

EQUIP TYPE TRANSFORMER  
TRANS CLASS  
IMPEDANCE  
PHASE CYCLE  
LIQUID TYPE OIL  
GAL LIQUID

**ADDITIONAL EQUIPMENT**

RADIATORS  
FANS  
H.O. COOLED  
OIL PUMPS  
TOP FPV  
BOTTOM FPV  
OTHER ACCESS

CONSERVATORS YES  
ETC COMP  
BUSHING LOC  
HOSE LENGTH  
ENERGIZED  
POWER V A

*ROP 18391*

**VISUAL INSPECTION**

PAINT CONDITION LEAKS

**FIELD SERVICE**

**PCB CONTENT / EXPRESSED IN PPM**

DATE OF SERVICE	1242 AROCLOR	1254 AROCLOR	1260 AROCLOR	OTHER	TOTAL CONTENT
7/14/89			3		3

COLOR LABEL GREEN CLASS NON-PCB

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	LEVEL	TEMP	P/V	ACID	IFT	DIEL	COLOR	SP GR	VISCAL	SEDIMENT
------	---------	-------	------	-----	------	-----	------	-------	-------	--------	----------

**GAS-IN-OIL ANALYSIS / GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	SERVICE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	HEAVY METALS	TOTAL
------	---------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	--------------	-------

x THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS

December 20, 1985  
 Job #203  
 Page 2

*R.P. 21230*

<u>Sample</u>	<u>Ref. #</u>	<u>Aroclor Type</u>	<u>PPM</u>
<del>#15, S/N T07040</del>	<del>T-10335</del>	<del>1260</del>	<del>6</del>
<del>#16, S/N T07042</del>	<del>T-10336</del>	<del>1260</del>	<del>6</del>
<del>#17, S/N T07041</del>	<del>T-10337</del>	<del>1260</del>	<del>11</del>
X #18, S/N D4871-6	T-10338	1254 1260 TOTAL	15 16 31
<del>#19, S/N D4871-5</del>	<del>T-10339</del>	<del>1254 1260 TOTAL</del>	<del>83 104 187</del>
<del>#20, S/N D4871-4</del>	<del>T-10340</del>	<del>1254 1260 TOTAL</del>	<del>37 48 85</del>
#21, S/N D4760-1	T-10341	1254 1260 TOTAL	23 29 52
#22, S/N D4760-3	T-10342	1254 1260 TOTAL	14 17 31
#23, S/N D4760-2	T-10343	1254 1260 TOTAL	13 13 26
#24, S/N H26674969P	T-10344	1260	21
#25, S/N D4871-3	T-10345	1260	28
#26, S/N D4871-2	T-10346	1260	17
#27, S/N D4871-1	T-10347	1260	17
#28, S/N 697HA64001	T-10348	NONE DETECTED*	
#29, S/N 3110588	T-10349	1260	18
#30, S/N 3110587	T-10350	1242 1260 TOTAL	32 26 58
#31, S/N 3110589	T-10351	1260	24
#32, S/N 3110590	T-10352	1260	17

<u>Sample</u>	<u>Ref. #</u>	<u>Aroclor Type</u>	<u>PPM</u>
#33, S/N 68AB398B	T-10353	NONE DETECTED*	
#34, S/N 88AB3987	T-10354	NONE DETECTED*	
#35, S/N 68AB3453	T-10355	NONE DETECTED*	
#36, S/N 6586955	T-10356	1260	192
#37, S/N 6586986	T-10357	1260	117
#38, S/N 658503	T-10358	1260	110
#39, S/N 6586968	T-10359	1260	92
#40, S/N 6586953	T-10360	1260	98
#41, S/N 6587441	T-10361	1260	49
#47, S/N 6587001	T-10362	1260	146
#48, S/N 6586938	T-10363	1260	138
#49, S/N 6385534	T-10364	1260	136
#50, S/N H319531P71AA	T-10365	1260	11
#51, S/N 73H543053	T-10366	NONE DETECTED*	
#52, S/N H319330P71AA	T-10367	1260	9
#53, S/N J927096T71AA	T-10368	NONE DETECTED*	
#55, S/N 758846	T-10369	1260	23
#56, S/N 22384	T-10370	1260	52
#57, S/N 22383	T-10371	1260	52
#58, S/N H257428-68P	T-10372	1242 1260 TOTAL	3 178 *181
#59, S/N 76A393692	T-10373	NONE DETECTED*	
#60, S/N 76A333964	T-10374	NONE DETECTED*	
#61, S/N 76A394544	T-10375	NONE DETECTED*	

\*Samples reported as None Detected can be considered to contain less than 1 PPM.

Tested and Certified by

*Jeffrey A. Herbert*  
 Jeffrey A. Herbert  
 Laboratory Director



Sun Refining and  
Marketing Compa  
Ten Penn Center  
1801 Market Street  
Philadelphia PA 19103

88 NA 105-001

March 31, 1989

Ravenna Arsenal, Inc.  
8451 State Road 5  
Ravenna, OH 44266-9297

Attention: Mr. Daniel Dutton

Subject: POLYCHLORINATED BIPHENYL (PCB) COMPOUNDS

Dear Mr. Dutton:

This is in reply to your request concerning subject compounds and Sun products.

Sun products do not contain polychlorinated biphenyls (PCB's) as manufactured. Sun does not use PCB's as additives to any blended product, nor use PCB's in a way that would contact our petroleum products.

Sincerely,

*Ramona Panson /sg*  
Ramona Panson  
Manager of Toxicology  
and Product Safety

RDP:sg

Com Ctr Form

Date and Time Received

Sun Com Ctr

Date

3-31-89

To MR. DANIEL DUTTO

Company Name RAVENA ARSENAL, INC.

Street Address 8451 STATE ROAD 5

City RAVENA State OH Zip 44266

Sender's Name RAMONA PANKSON

Phone Number 215-977-6190 Department RISK MGT

Please Send Via:  TLX #  TWX #

Facsimile Phone #: AC(216) 297-3216

Important: Message will not be sent without Sender's Name and Phone Number

Page 1 of 2

For information regarding this transmission, call (215) 977-8779

COMMUNICATIONS

SUN-00

31 MAR 89 15 02

PHILADELPHIA MESSAGE CENTER

Computer Systems Numbers

T.	MS		
R.			L.

This information was supplied to confirm the fact that the new McGraw Edison 50KVA purchased new in CY 1988 do not contain PCB's in the dielectric fluid. An MSDS is available regarding this fluid.

*[Signature]*  
MC

VIA SUNFAX NETWORK  
MSG. NO. 79  
SENT   
REG.   
PHILADELPHIA  
MESSAGE CENTER

RECEIVED BY COMMUNICATIONS

MAR 31 1989

7:39:01:2123450

**SUN**

Sun Refining and  
Marketing Comp  
Ten Penn Center  
1801 Market Street  
Philadelphia PA 1910

87NN243-002

March 31, 1989

Ravenna Arsenal, Inc.  
8451 State Road 5  
Ravenna, OH 44266-9297

Attention: Mr. Daniel Dutton

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*Ramona Panson /sg*

Ramona Panson  
Manager of Toxicology  
and Product Safety

RDP:sg



Date 3-31-89

To MR. DANIEL DUMAL

Company Name RAVENA ARSENAL, INC.

Street Address 8451 STATE ROAD 5

City RAVENA State OH Zip 44266

Sender's Name RAMONA PARSON

Phone Number 215-977-6190 Department RISK MGT

Please Send Via:  TLX #  TWX #

Facsimile Phone #: NC (216) 297-3216

Important: Message will not be sent without Sender's Name and Phone Number

Page 1 of 2

For information regarding this transmission, call (215) 377-3779

COMUNICATIONS DEPT

SUN-00

31 MAR 89 15:02

PHILADELPHIA MESSAGE CENTER

Computer System Numbers

T.	MS		
R.			L

This information was supplied to confirm the fact that the new M<sup>c</sup>Graw Edison 50KVA purchased new in CY 1988 do not contain PCB's in the dielectric fluid. An MSDS is available regarding this fluid.

*[Signature]*  
MCC

VIA SUNFAX NETWORK  
MSG. NO. 70  
SENT   
REC.   
PHILADELPHIA  
MESSAGE CENTER

RECEIVED BY COMMUNICATIONS

MAR 31 1989

7830112123456

**SUN**

87 NN 243-003

Sun Refining and  
Marketing Company  
Ten Penn Center  
1801 Market Street  
Philadelphia PA 19103

March 31, 1989

Ravenna Arsenal, Inc.  
8451 State Road 5  
Ravenna, OH 44266-9297

Attention: Mr. Daniel Dutton

Subject: POLYCHLORINATED BIPHENYL (PCB) COMPOUNDS

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Sincerely,

*Ramona Panson /sg*

Ramona Panson  
Manager of Toxicology  
and Product Safety

RDP:sg

Com Ctr Form

Date and Time Received:

Sub Com Ctr

Date 3-31-89

To MR. DANIEL DUTTA

Company Name RAVENA ARSENAL, INC.

Street Address 8451 STATE ROAD 5

City RAVENA State OH Zip 44266

Sender's Name RAMONA PANKSON

Phone Number 215-977-6190 Department RISK MGT

Please Send Via:  TLX #  TWX #

Facsimile Phone #: ATC (216) 297-3216

Important: Message will not be sent without Sender's Name and Phone Number

Page 1 of 2

For information regarding this transmission, call (215) 977-5770

C O M M U N I C A T I O N S

SUN-00:  
31 MAR 89 15:02  
PHILADELPHIA  
MESSAGE CENTER

Computer Systems Numbers

T.	MS
R.	L.

This information was supplied to confirm the fact that the new McGraw Edison 50KVA purchased new in CY 1988 do not contain PCB's in the dielectric fluid. An MSDS is available regarding this fluid.

*[Signature]*  
TMC

VIA SUNFAX NETWORK  
MSG. NO. 70  
SENT   
REC.   
PHILADELPHIA  
MESSAGE CENTER

RECEIVED BY COMMUNICATIONS

MAR 31 1989

7890112123456

**ELECTRO-ANALYTICAL, INC.**

2086

November 1, 1988  
Electro Power Management  
88-138  
Page 2

PO. 10-78

<u>Sample ID</u>	<u>Ref. #</u>	<u>Aroclor Type</u>	<u>PPM</u>
RAV 998816	60917T	1260	11
2086 / RAV 998817	60918T	1260	7

\*Samples reported as None Detected can be considered to contain less than 1 PPM.

Tested and Certified by

ELECTRO-ANALYTICAL, INC.

*Michael S. Herbert*

Michael S. Herbert  
Dielectrics Division Supervisor

MSH/bmr

TIME IN: 09:00  
 TIME OUT: \_\_\_\_\_

P C B T E S T S

Sept 9, 1971  
 DATE SAMPLE COLLECTED

PEP NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
✓ 29027P	POD-2836	LM 25KV	POD	2836 (P54)	25KV	998801	✓	0 L
4781		PCOC Breaker Switch		(P54)	Switch	998802	✓	0 L
✓ 6565275		GE TRANS		(P54)	15KV	998803	✓	191 L
✓ 6691757		GE TRANS	ROP	18441 (P54)	5KV	998804	✓	68 L
✓ 3130155		West TRANS	ROP	18571 (P54)	10KV	998805	✓	57 ✓
✓ 6290690		GE TRANS	ROP	18441 (P54)	15KVA	998806	✓	154 ✓
✓ 1191214		West TRANS	ROP	18591 (P54)	10KVA	998807	✓	60 L
✓ 6290630		GE TRANS	ROP	18450 (P54)	15KVA	998808	✓	22 ✓
✓ 6585803		GE	ROP	18901 (P54)	50	998809	* ✓	104 L
✓ 6586203		GE	ROP	18902 (P54)	50	998810	* ✓	66 L
✓ 6586146		GE	ROP	18903 (P54)	50	998811	* ✓	98 L
? 825095	F-11	Kuhlman	ROP	18380 (P54)	5KVA	998812	✓	3 L
? 296766		Line Station	POD	26415* (P54)	25KVA	998813	* ✓	0 L
? 3130414	" "	West	ROP	18905 (P54)	7.5KVA	998814	✓	43 L
2088		HARKIN LECTRO		NONE	L#3	50KVA	998815	10

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE \_\_\_\_\_  
 TYPED NAME \_\_\_\_\_  
 TITLE \_\_\_\_\_  
 LABORATORY NAME \_\_\_\_\_  
 LABORATORY ADDRESS \_\_\_\_\_





# ELECTRO-ANALYTICAL, INC.

Corporate Headquarters  
7118 Industrial Park Blvd.  
Mentor, OH 44060-5377  
(216) 951-3514  
Fax (216) 951-3774

Chicago Branch  
715 Lake St., Suite 702  
Oak Park, IL 60301  
(312) 848-8662

Florida Branch  
516 84th Street, N.W.  
Brenton, FL 34209  
(813) 795-2785

November 1, 1988

Mr. Martin Kelly  
Electro Power Management  
472 Greenmount  
Canfield, OH 44406

RE: 88-138, RAV/NIL

E.A.I. Project #88-3167  
Date Tested: 9/15/88

Chromatographic analysis for PCB content of 17 oil samples

Accuracy: Plus or minus 10%  
Detection Limit: 1 PPM

Sample ID	S/N	Ref. #	TA9*	Aroclor Type	PPM	EN9 -
RAV 998801	290278	60902T	Pa.D-2836	NONE DETECTED*		37-88
RAV 998802	4781	60903T	No TA9	NONE DETECTED*		37-88
RAV 998803	6565275	60904T	No TA9	1260	191	38-88
RAV 998804	6691757	60905T	RoP-18918	1260	68	"
RAV 998805	3130155	60906T	RoP-18571	1260	57	"
RAV 998806	6290690	60907T	RoP-18441	1260	154	"
RAV 998807		60908T		1260	60	
RAV 998808	6290630	60909T	RoP-18450	1260	22	37-88
RAV 998809		60910T		1260	104	
RAV 998810		60911T		1260	66	
RAV 998811		60912T		1260	99	
RAV 998812	825095	60913T	RoP-18380	1260	3	37-88
RAV 998813		60914T		NONE DETECTED*		
RAV 998814	3130414	60915T	RoP-18905	1260	43	37-88
RAV 998815		60916T		1260	10	



# ELECTRO-ANALYTICAL, INC.

Corporate Headquarters  
7118 Industrial Park Blvd.  
Mentor, OH 44060-5377  
(216) 351-3514  
Fax (216) 351-3774

Chicago Branch  
715 Lake St. Suite 702  
Oak Park, IL 60301  
(312) 848-4662

Florida Branch  
516 84th Street, N.W.  
Bradenton, FL 34209  
(813) 733-2785

November 1, 1988

Mr. Martin Kelly  
Electro Power Management  
472 Greenmount  
Canfield, OH 44406

RE: 88-138, RAV/NIL

E.A.I. Project #88-3167  
Date Tested: 9/15/88

Chromatographic analysis for PCB content of 17 oil samples

Accuracy: Plus or minus 10%  
Detection Limit: 1 PPM

<u>Sample ID</u>	<u>S/N</u>	<u>Ref. #</u>	<u>TA9*</u>	<u>Aroclor Type</u>	<u>PPM</u>	<u>EN9 -</u>
RAV 998801	290278	60902T	Pa.D-2836	NONE DETECTED*		37-88
RAV 998802	4781	60903T	No TA9	NONE DETECTED*		37-88
RAV 998803	6565275	60904T	No TA9	1260	191	38-88
RAV 998804	6691757	60905T	ROP-18918	1260	63	"
RAV 998805	3130155	60906T	ROP-18571	1260	57	"
RAV 998806	6290690	60907T	ROP-18441	1260	154	"
RAV 998807		60908T		1260	60	
RAV 998808	6290630	60909T	ROP-18450	1260	22	37-88
RAV 998809		60910T		1260	104	
RAV 998810		60911T		1260	66	
RAV 998811		60912T		1260	99	
RAV 998812	825095	60913T	ROP-18380	1260	3	37-88
RAV 998813		60914T		NONE DETECTED*		
RAV 998814	3130414	60915T	ROP-18905	1260	43	37-88
RAV 998815		60916T		1260	10	





ELECTRO-ANALYTICAL, INC.

2087

November 1, 1988  
Electro Power Management  
88-138  
Page 2

2087

<u>Sample ID</u>	<u>Ref. #</u>	<u>Aroclor Type</u>	<u>PPM</u>
RAV 998816	60917T	1260	11
RAV 998817	60918T	1260	7

\*Samples reported as None Detected can be considered to contain less than 1 PPM.

Tested and Certified by

ELECTRO-ANALYTICAL, INC.

Michael S. Herbert  
Dielectrics Division Supervisor

MSH/bmr

TIME IN: 09:00

PCB TESTS

Sept 9, 1988  
DATE SAMPLE COLLECTION

TIME OUT: \_\_\_\_\_

PEP NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
✓ 29027P	POD-2836	LM 25KV	POD	2836 (P54)	25KV	998801	✓	0 L
4781		PCOC Remote Switch		(P54)	oil Switch	998802	✓	0 L
✓ 6565275		GE TRANS		(P54)	15KV	998803	✓	191 L
✓ 6691757		GE TRANS	ROP	18275 (P54)	5KV	998804	✓	68 L
✓ 3130155		West TRANS	ROP	18571 (P54)	10KV	998805	✓	57 ✓
✓ 6290690		GE TRANS	ROP	18441 (P54)	15KV*	998806	✓	154 ✓
✓ 1191214		West TRANS	ROP	18591 (P54)	10KVA	998807	✓	60 L
✓ 6290630		GE TRANS	ROP	18450 (P54)	15KVA	998808	✓	22 ✓
✓ 6585803		GE	ROP	18901 (P54)	50	998809	* ✓	104 L
✓ 6586203		GE	ROP	18902 (P54)	50	998810	* ✓	66 L
✓ 6586146		GE	ROP	18903 (P54)	50	998811	* ✓	98 L
✓ 825095	F-11	Kuhlman	ROP	18380 (P54)	5 KVA	998812	✓	3 L
✓ 296766		Line Station	POD	2645* (P54)	25KVA	998813	* ✓	0 L
✓ 3130414	" "	West	ROP	18905 (P54)	7.5 KVA	998814	✓	43 L
2088	HARKIN LECTRO		NONE		LL#3	50 KVA	998815	10

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE \_\_\_\_\_  
 TYPED NAME \_\_\_\_\_  
 TITLE \_\_\_\_\_  
 LABORATORY NAME \_\_\_\_\_  
 LABORATORY ADDRESS \_\_\_\_\_

P C B T E S T S

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTED \_\_\_\_\_

<u>PEP NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
----------------	-----------------	-------------	------------------	-----------------------	---------------	---------------------	--------------------------------	----------------

2087		LARKIN LECTRO	NONE	2L#3	50KVA	998816		11
------	--	---------------	------	------	-------	--------	--	----

2086		LARKIN LECTRO	NONE	6L#3	50KVA	998817		7
------	--	---------------	------	------	-------	--------	--	---

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE \_\_\_\_\_

TYPED NAME \_\_\_\_\_

TITLE \_\_\_\_\_

LABORATORY NAME \_\_\_\_\_

LABORATORY ADDRESS \_\_\_\_\_



# ELECTRO-ANALYTICAL, INC.

Corporate Headquarters  
7118 Industrial Park Blvd.  
Mentor, OH 44060-5377  
(216) 351-3514  
Fax (216) 351-3774

Chicago Branch  
715 Lake St., Suite 702  
Oak Park, IL 60301  
(312) 848-3862

Florida Branch  
518 84th Street, N.W.  
Brenton, FL 34209  
(313) 795-2785

2088

November 1, 1988

Mr. Martin Kelly  
Electro Power Management  
472 Greenmount  
Canfield, OH 44406

RE: 88-138, RAV/NIL

E.A.I. Project #88-3167  
Date Tested: 9/15/88

Chromatographic analysis for PCB content of 17 oil samples

Accuracy: Plus or minus 10%  
Detection Limit: 1 PPM

Sample ID	<u>S/N</u>	Ref. #	<u>TA9*</u>	Analyzer Type	PPM	<u>EN9 -</u>
RAV 998801	290278	60902T	Pa.D-2836	NONE DETECTED*		37-88
RAV 998802	4781	60903T	No TA9	NONE DETECTED*		37-88
RAV 998803	6565275	60904T	No TA9	1260	191	38-88
RAV 998804	6691757	60905T	ROP-18918	1260	63	"
RAV 998805	3130155	60906T	ROP-18571	1260	57	"
RAV 998806	6290690	60907T	ROP-18441	1260	154	"
RAV 998807		60908T		1260	60	
RAV 998808	6290630	60909T	ROP-18450	1260	22	37-88
RAV 998809		60910T		1260	104	
RAV 998810		60911T		1260	66	
RAV 998811		60912T		1260	99	
RAV 998812	825095	60913T	ROP-18380	1260	3	37-88
RAV 998813		60914T		NONE DETECTED*		
RAV 998814	3130414	60915T	ROP-18905	1260	43	37-88
2088 / RAV 998815		60916T		1260	10	

 ELECTRO-ANALYTICAL, INC.

November 1, 1988  
Electro Power Management  
88-138  
Page 2

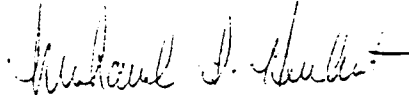
PO. 165-48

<u>Sample ID</u>	<u>Ref. #</u>	<u>Aroclor Type</u>	<u>PPM</u>
RAV 998816	60917T	1260	11
<del>RAV 998817</del>	<del>60918T</del>	<del>1260</del>	<del>11</del>

\*Samples reported as None Detected can be considered to contain less than 1 PPM.

Tested and Certified by

ELECTRO-ANALYTICAL, INC.



Michael S. Herbert  
Dielectrics Division Supervisor

MSH/bmr

TIME IN: 09:00

PCB TESTS

Sept 9, 1988  
DATE SAMPLE COLLECTION

TIME OUT: \_\_\_\_\_

PCB  
CONC.  
(ppm)

REMARKS

PEP NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
✓ 29027P	POD-2836	LM 25KV	POD 2836	(P54)	25KV	998801	✓	0 L
4781		PCOC Reactor Switch		(P54)	Switch	998802	✓	0 L
✓ 6565275		GE TRANS		(P54)	15KV	998803	✓	191 L
✓ 6691757		GE TRANS	ROP 18711	(P54)	5KV	998804	✓	68 L
✓ 3130155		West TRANS	ROP 18571	(P54)	10KV	998805	✓	57 ✓
✓ 6290690		GE TRANS	ROP 18441	(P54)	15KVA	998806	✓	154 ✓
✓ 1191214		West TRANS	ROP 18591	(P54)	10KVA	998807	✓	60 L
✓ 6290630		GE TRANS	ROP 18450	(P54)	15KVA	998808	✓	22 ✓
✓ 6585803		GE	ROP 18901	(P54)	50	998809	* ✓	104 L
✓ 6586203		GE	ROP 18902	(P54)	50	998810	* ✓	66 L
✓ 6586146		GE	ROP 18903	(P54)	50	998811	* ✓	98 L
✓ 825095	F-111	Kuhlman	ROP 18380	(P54)	5KVA	998812	✓	3 L
✓ 296766		Line Station	POD 2645*	(P54)	25KVA	998813	* ✓	0 L
✓ 3130414	" "	West	ROP 18905	(P54)	7.5KVA	998814	✓	43 L
2088	HARKIN LECTRO		NONE		LL#3	50KVA	998815	10

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE \_\_\_\_\_

TYPED NAME \_\_\_\_\_

TITLE \_\_\_\_\_

LABORATORY NAME \_\_\_\_\_

LABORATORY ADDRESS \_\_\_\_\_



ORIG: D.E. JURA  
 CC: PURCHASING  
 T. T. SCOTT  
 J. F. FULTZ  
 L. J. LAVIN  
 T. M. CHANDA  
 J. D. MCGEE

POD 2166

P.O. 26283 (BATCH #4)  
 PAGE 1 OF 3.

RAVENNA ARSENAL, INC.

P.C.B. TESTS

10/7/92

DATE SAMPLE COLLECTION

(SERIAL NO.)

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	6576115	OIL	ROP-18531	854	TRANSFORMER	10079201	120 @ 1260	
2.	B244291	"	NONE	"	"	10079202	247 @ 1260	
3.	6576372	"	ROP-18530	"	"	10079203	152 @ 1260	
4.	6576284	"	ROP-18529	"	"	10079204	127 @ 1260	
5.	6671162	"	ROP-18212	"	"	10079205	216 @ 1260	
6.	4187671	"	NONE	"	"	10079206	4 @ 1254	
7.	70AA2181	"	NONE	"	"	10079207	ND	
8.	70AA2174	"	NONE	"	"	10079208	ND	
<del>9.</del>	286822	"	POD-2166	"	"	10079209	ND	
10.	291448	"	POD-2604	"	"	10079210	ND	
11.	291447	"	POD-2605	"	"	10079211	ND	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE 

TYPED NAME David P. Myers

TITLE Lab Manager

LABORATORY NAME S.D. Myers

LABORATORY ADDRESS 180 South Ave Tallmadge, OH 44278

DETECTION LIMIT IS 2 PPM





# ELECTRICAL TESTING SERVICES, INC.



930 CASS STREET • NEW CASTLE, PA 16101 • (412) 658-1611, 652-5568

## INSULATING OIL TEST REPORT

CUSTOMER: RAVENNA ARSENAL INC.  
 ADDRESS: 8451 STATE RT. 5, RAVENNA, OH  
 OWNER USER: SAME  
 ADDRESS: SAME  
 EQUIPMENT LOCATION: PLANT.  
 OWNER IDENTIFICATION: TAG # 43,50 KVA XFMR, 2400/4160--120/240 V

DATE: 89-11-21  
 AIR TEMP: --  
 DATE LAST TEST: 12-6-85  
 LAST TEST REPORT No: --

SHEET No: 430F: 63  
 PROJECT No: 6414  
 REL. HUMIDITY: --

*43 PPM*

YEAR	DEVICE	SP. GRAVITY	DIELECT. STRENGTH	NEU. No. Mg KOH/gm	COLOR	IFT	PCB
1989	50 KVA XFMR, 1-PH GE, # 6413822 <i>RIP-18462</i>	0.876	35.6 KV	0.3 PASSED	1.0	21.5	<u>42.56</u> 1260

### PHYSICAL CONDITION

YEAR	SERVICE PERFORMED	TEMP	PRES. VAC	PAINT	CLEAN BUSHING	LEAKS	RECOMMENDATION
1989	INSPECTED	--	--	OK	---	NONE	OIL IS OK.

REMARKS: OIL IS OK.  
 TRANSFORMER IS NON PCB.  
 DETECTION LIMIT IS + 10 %

TESTED BY: VS

SUBMITTED BY:

HAROLD MOSLEY Jr, EE



# ELECTRICAL TESTING SERVICES, INC.



930 CASS STREET • NEW CASTLE, PA 16101 • (412) 658-1611, 652-5568

## INSULATING OIL TEST REPORT

CUSTOMER: RAVENNA ARSENAL INC.  
 ADDRESS: 8451 STATE RT. 5, RAVENNA, OH  
 OWNER USER: SAME  
 ADDRESS: SAME  
 EQUIPMENT LOCATION: PLANT.  
 OWNER IDENTIFICATION: TAG # 42,50 KVA XEMR, 2400/4160--120/240 V

DATE: 89-11-21  
 AIR TEMP: --  
 DATE LAST TEST: 12-6-85  
 LAST TEST REPORT No: --

SHEET No: 420F: 63  
 PROJECT No: 6414  
 REL. HUMIDITY: --

*Handwritten initials*

YEAR	DEVICE	SP. GRAVITY	DIELECT. STRENGTH	NEU. No. Mg KOH/gm	COLOR	IFT	PCB
1989	50 KVA XEMR, 1-PH: GE, # 6413857 <i>ROP 18451</i>	0.876	40.0 KV	0.3 PASSED	1.5	22.3	46.56 1280

### PHYSICAL CONDITION

YEAR	SERVICE PERFORMED	TEMP	PRES. VAC	PAINT	CLEAN BUSHING	LEAKS	RECOMMENDATION
1989	INSPECTED	-	-	OK	--	NONE	OIL IS OK

REMARKS: OIL IS OK.  
 TRANSFORMER IS NON PCB.  
 DETECTION LIMIT IS + 10 %

TESTED BY: VS : : : : : : : : : : : :

SUBMITTED BY: *Handwritten Signature* HAROLD MOSLEY Jr, EE



Page 1 of 1

August 17, 1993

JOB NO.: 112-719

RAVENNA ARSENAL

REPORT OF ANALYSIS

Analysis: PCB in Oil

Analytical Method: EPA 600/4-81-045

Date Received: 12/07/90

M.D.L. = Minimum Detectable Level

<u>Lab Order</u>	<u>Serial No.</u>	<u>Date</u>	<u>Concentration</u>	<u>M.D.L.</u>
33309	5534172	12/10/90	4.0 mg/Kg	2.0 mg/Kg

  
**Ron Jack**  
Technical Supervisor

Accredited by the American Association for Laboratory Accreditation in the environmental and chemical field of testing, as listed in the current A2LA Directory of Accredited Laboratories. The above analyses were performed under the accreditation requirements of A2LA. Results relate only to the item(s) tested.

This report may not be reproduced except in full without the approval of Magnetek Transformer Repair.

cf: RAY LAWRENCE  
J. McGEE  
7-2-93

Solomon Corporation  
Post Office Box 248  
Solomon, Kansas 67480



Web Line (800) 234-2887  
Telephone (913) 655-2181  
Fax (913) 655-2502

*"The Performance Transformer Company"*

July 1, 1993

Bill Jenkins  
Ravenna Arsenal Inc.  
8451 State Route 5  
Ravenna, OH 44266

Dear Bill:

Solomon Corporation uses only new PCB-Free (0 ppm) mineral oil in our remanufacturing process. Enclosed is a copy of a Certificate of Analysis for the new oil verifying this.

I can assure you that the transformer (serial number A2355) we built for you was filled with new PCB-Free dielectric mineral oil.

Sincerely,

A handwritten signature in cursive script that reads "Dana Gilfillan".

Dana Gilfillan  
Environmental Administrator

B.J. JENKINS JUL 01 1993  
JUL 1 1993 PURCHASING

# TULSTAR ★ PRODUCTS, INC.

1722 S. CARSON  
SUITE 2907  
TULSA, OK 74119  
TELEPHONE (918) 847 7878  
FAX (918) 847 5367  
TELEX 493 1040  
ANSWER BACK TITARA

## Certificate of Analysis

### Transformer Oil

Customer: Soloman Corp.

Destination: Soloman, Ks.

Cust. P.O.#: A020293SB-2BLK

Batch / Lot: 62963

#### PROPERTIES

#### TEST RESULTS

Viscosity, @ 40C cs

10.43

Appearance

Bright & Clear

Color

LO.5

Gravity

.8544

Power Factor, % at 100

.045

Inhibitor, % wt

.3

Dielectric Strength, Kv

38

Interfacial Tension, dynes

42

Karl Fisher Water, ppm

22

Contains No Detectable PCB's As Determined by ASTM D-4053

JUL 01 1993

PURCHASING

RAVENNA ARSENAL, INC.

27760

PURCHASE ORDER NUMBER

PCB TESTS

6/22/93 & 6/23/93

DATE SAMPLE COLLECTED

*ROP 18506*

*Jack Fultz E. Rahne*  
SAMPLE COLLECTED BY E. RAHNE & J. FULTZ

PLANT NO.	SERIAL NO.	ITEM	BLDG. LOC.	FLUID	LAB ID NO.	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
<i>X</i> ROP-18506	6586610	TRANSFORMER	1035	OIL	06229301	65 @ 1260		
2. ROP-18517	6585442	"	1035	"	06229302	132 @ 1260		
3. ROP-18543	6586667	"	1035	"	06229303	82 @ 1260		
4. NONE	J553614Y704	"	1037	"	06229304	ND	2 ppm	
5. NONE	J553610Y704	"	1037	"	06229305	ND	2 ppm	
6. ROP-18430	291361	"	LL#12	"	06229306	ND	2 ppm	
7. ROP-18510	6694976	"	1034	"	06229307	184 @ 1260		
8. ROP-18511	6575998	"	1034	"	06229308	167 @ 1260		
9. ROP-18514	6575948	"	1034	"	06229309	ND	2 ppm	
10. NONE	3631-69	"	1038/P1	"	06239301	5 @ 1254		
11. NONE	3632-69	"	1038/P1	"	06239302	10 @ 1254		
12. NONE	3633-69	"	1038/P1	"	06239303	8 @ 1254		
13.								
14.								
15.								
16.								
17.								
18.								

ORIG: D. E. JURA  
PURCHASING  
CC: T. T. SCOTT  
J. F. FULTZ  
L. J. LAVIN  
T. M. CHANDA  
J. D. MCGEE

I CERTIFY  
OF LABORATORY

METHODS PRESCRIBED IN ASTM D-40-59 OR EPA SW846 METHOD 8080.

HISTORICAL RECORD FILE OF EACH TX.  
AS SHOWN ABOVE ARE TRUE RESULTS  
AS DETERMINED IN ACCORDANCE WITH GAS CHROMATOGRAPHY

AUTHORIZED SIGNATURE *John R Sans*  
TYPED NAME John R. Sans  
TITLE Laboratory Supervisor  
LABORATORY NAME S. D. Myers, Inc.  
DATE LAB RECEIVED SAMPLE 6/30/93  
DATE REPORTED 7/8/93

RAVENNA ARSENAL, INC.

6/22/93 & 6/23/93  
DATE SAMPLE COLLECTED

27760  
PURCHASE ORDER NUMBER

PCB TESTS

*ROP 18517*

*Jack Fultz E. Rahne*  
SAMPLE COLLECTED BY E. RAHNE & J. FULTZ

	PLANT NO.	SERIAL NO.	ITEM	BLDG. LOC.	FLUID	LAB ID NO.	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
1.	ROP-18516	6586610	TRANSFORMER	1035	OIL	06229301	65 @ 1260		
<del>2.</del>	ROP-18517	6585442	"	1035	"	06229302	132 @ 1260		
3.	ROP-18543	6586667	"	1035	"	06229303	82 @ 1260		
4.	NONE	J553614Y704	"	1037	"	06229304	ND	2 ppm	
5.	NONE	J553610Y704	"	1037	"	06229305	ND	2 ppm	
6.	ROP-18430	291361	"	LL#12	"	06229306	ND	2 ppm	
7.	ROP-18510	6694976	"	1034	"	06229307	184 @ 1260		
8.	ROP-18511	6575998	"	1034	"	06229308	167 @ 1260		
9.	ROP-18514	6575948	"	1034	"	06229309	ND	2 ppm	
10.	NONE	3631-69	"	1038/P1	"	06239301	5 @ 1254		
11.	NONE	3632-69	"	1038/P1	"	06239302	10 @ 1254		
12.	NONE	3633-69	"	1038/P1	"	06239303	8 @ 1254		
13.									
14.									
15.									
16.									
17.									
18.									

ORIG: D. E. JURA  
PURCHASING  
CC: T. T. SCOTT  
J. F. FULTZ  
L. J. LAVIN  
T. M. CHANDA  
J. D. MCGEE

I CERTIFY  
OF LABORATORY  
METHODS PRESCRIBED IN ASTM D-40-59 OR EPA SW846 METHOD 8080.

HISTORICAL RECORD FILE OF EACH TX.  
AS SHOWN ABOVE ARE TRUE RESULTS  
AS DETERMINED IN ACCORDANCE WITH GAS CHROMATOGRAPHY

AUTHORIZED SIGNATURE *John R. Sans*  
TYPED NAME John R. Sans

TITLE Laboratory Supervisor

LABORATORY NAME S. D. Myers, Inc.

DATE LAB RECEIVED SAMPLE 6/30/93

DATE REPORTED 7/8/93



# ELECTRICAL TESTING SERVICES, INC.



930 CASS STREET • NEW CASTLE, PA 16101 • (412) 658-1611, 652-5568

## INSULATING OIL TEST REPORT

SHEET No: 63 OF: 63

CUSTOMER: RAVENNA ARSENAL INC.  
ADDRESS: 8451 STATE RT. 5, RAVENNA, OH  
OWNER USER: SAME  
ADDRESS: SAME  
EQUIPMENT LOCATION: PLANT.

DATE: 89-11-21  
AIR TEMP: --  
DATE LAST TEST: NOT KNOWN  
LAST TEST REPORT No: --

PROJECT No: 6414  
REL. HUMIDITY: --

OWNER IDENTIFICATION: 500 KVA XE M 6900--115 V, TAG # 63

YEAR	DEVICE	SP. GRAVITY	DIELECT. STRENGTH	NEU. No. Mg KOH/gm	COLOR	IFT	PCB
1989	<del>XXXXXXXXXX</del> <del>XXXXXXXXXX</del>	0.886	39.6 KV	0.45 PASSED	7.5	18.8	<del>15.87</del> 1260
<i>POD 2832</i>							

### PHYSICAL CONDITION

YEAR	SERVICE PERFORMED	TEMP	PRES. VAC	PAINT	CLEAN BUSHING	LEAKS	RECOMMENDATION
1989	INSPECTED	--	--	OK	--	NONE	OIL IS NOT GOOD.

REMARKS: COLOR # & ACID # IS TOO HIGH. IFT IS LOW. OIL MAY BE REPLACED.  
TRANSFORMER IS NON PCB.  
DETECTION LIMIT IS + 10 %

TESTED BY: VS

SUBMITTED BY:

HAROLD MOSLEY Jr., EE



PCB TEST RESULTS

CUSTOMER # 84103

TEST DATE 12/12/89

P.O. # 6286-MH1

PAGE 1 of 1

Solomon Electric Supply  
P.O. Box 245  
Solomon, KS 67480

Contact: Matt Hemmer  
Phone #: (800)234-2667

Laboratory Id #	Customer Sample #	Sample Type	PCB Type	PCB Results
62220	6598	O		< 2.00
62230	6599	O		< 2.00
62240	6600	O		< 2.00
62250	6601	O		< 2.00
62260	6602	O		< 2.00
62270	6603	O		< 2.00
62280	6604	O		< 2.00
62290	6605	O		< 2.00
62300	6606	O		< 2.00
62310	6607	O		< 2.00
62320	6608	O		< 2.00
62330	6609	O		< 2.00
62340	6610	O	1260	4.14
62350	6611	O		< 2.00
62360	6612	O	1260	14.04
62370	6613	O		< 2.00
62380	6614	O		< 2.00
62390	6615	O		< 2.00
62400	6616	O		< 2.00
62410	6617	O		< 2.00
62420	6618	O		< 2.00
62430	6619	O		< 2.00
62440	6620	O		< 2.00
62450	6621	O		< 2.00
62460	6622	O		< 2.00
62470	6623	O		< 2.00
62480	6624	O		9.36

1214895m1

- O Oil
- W Water
- D Solids
- S Swab/Wipe
- A Air

JUL 26 1993

PURCHASING

*Scott Peppers*  
 Chemist  
 Trinity Environmental  
 316/628-5122

Y

Enclosure #3

**ELECTRO-ANALYTICAL INC.**

7255 INDUSTRIAL PARK BLVD.

SUITE A

MENTOR, OHIO 44060

216-951-3514

December 20, 1985

Ragon Hi-Voltage Services, Inc.  
633 Bell Flower, SW  
Canton, OH 44710

Attention: Mr. Don Ragon  
RE: Job #203, Ravenna Arsenal

E.A.I. Project #T85-1102  
Chromatographic analysis for PCB of 53 oil samples

Accuracy: Plus or minus 10%  
Detection Limit: 1PPM

<u>Sample</u>	<u>Ref. #</u>	<u>Aroclor Type</u>	<u>PPM</u>
#3, S/N D5167-2	T-10323	1260	112
#4, S/N D5167-1	T-10324	1260	109
#5, S/N D5167-3	T-10325	1260	115
#6, S/N M6043	T-10326	1254	3
#7, S/N M6041	T-10327	1254	3
#8, S/N M6040	T-10328	1254	3
#9, S/N M5180	T-10329	1260	70
#10, S/N M2523	T-10330	1260	78
#11, S/N 947797	T-10331	1260	3
#12, S/N 6586943	T-10332	1260	111
#13, S/N 6586998	T-10333	1260	156
#14, S/N 6586925	T-10334	1260	123

December 20, 1985  
Job #203  
Page 2

<u>Sample</u>	<u>Ref. #</u>	<u>Aroclor Type</u>	<u>PPM</u>
#15, S/N 707040	T-10335	1260	6
#16, S/N 707042	T-10336	1260	6
#17, S/N 707041	T-10337	1260	11
#18, S/N D4871-6	T-10338	1254	15
		1260	16
		TOTAL	31
#19, S/N D4871-5	T-10339	1254	83
		1260	104
		TOTAL	187
#20, S/N D4871-4	T-10340	1254	37
		1260	48
		TOTAL	85
<del>#21</del> , S/N D4760-1	T-10341	1254	23
		1260	29
		TOTAL	52
#22, S/N D4760-3	T-10342	1254	14
		1260	17
		TOTAL	31
#23, S/N D4760-2	T-10343	1254	13
		1260	13
		TOTAL	26
#24, S/N H26674969P	T-10344	1260	21
#25, S/N D4871-3	T-10345	1260	28
#26, S/N D4871-2	T-10346	1260	17
#27, S/N D4871-1	T-10347	1260	17
#28, S/N 697HAC 4001	T-10348	NONE DETECTED*	
#29, S/N 3110588	T-10349	1260	18
#30, S/N 3110587	T-10350	1242	32
		1260	26
		TOTAL	58
<del>#31</del> , S/N 3110589	T-10351	1260	24
<del>#32</del> , S/N 3110590	T-10352	1260	17

*Corrected*

Sample	Ref. #	Aroclor Type	PPM
<del>#33</del> , S/N 68AB3988 <i>RL</i>	T-10353	NONE DETECTED*	
<del>#34</del> , S/N 68AB3987 <i>RL</i>	T-10354	NONE DETECTED*	
<del>#35</del> , S/N 68AB3458 <i>RL</i>	T-10355	NONE DETECTED*	
<del>#36</del> , S/N 6586955	T-10356	1260	192
<del>#37</del> , S/N 6586986	T-10357	1260	117
<del>#38</del> , S/N <sup>6585503</sup> 658503	T-10358	1260	110
#39, S/N 6586968	T-10359	1260	92
#40, S/N 6586953	T-10360	1260	98
<del>#41</del> , S/N 6587441	T-10361	1260	49
<del>#47</del> , S/N 6587001	T-10362	1260	146
<del>#48</del> , S/N 6586938	T-10363	1260	138
<del>#49</del> , S/N <sup>5</sup> 6285534 <i>T-10364</i>	T-10364	1260	136
#50, S/N H319531P71AA	T-10365	1260	11
#51, S/N 73H543053	T-10366	NONE DETECTED*	
#52, S/N H319330P71AA	T-10367	1260	9
#53, S/N J927096T71AA	T-10368	NONE DETECTED*	
<del>#55</del> , S/N 758846	T-10369	1260	23
#56, S/N 22384	T-10370	1260	52
#57, S/N 22383	T-10371	1260	52
#58, S/N H257428-68P	T-10372	1242 1260 TOTAL	3 178 181
<del>#59</del> , S/N 76A393692	T-10373	NONE DETECTED*	
<del>#60</del> , S/N 76A333964	T-10374	NONE DETECTED*	
<del>#61</del> , S/N 76A394544	T-10375	NONE DETECTED*	

\*Samples reported as None Detected can be considered to contain less than 1 PPM.

Tested and Certified by  
*Jeffrey A. Herbert*  
 Jeffrey A. Herbert  
 Laboratory Director

MASTER LIST

APPENDIX A.

M.O. 327-1841

JUNE 11 1984

P.O. 10348

SPECIFICATION PS-366 56EA.

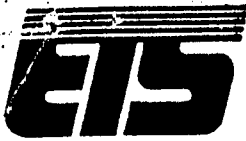
EQUIPMENT TO BE TESTED

TRANSFORMERS - ~~(61-56 done 1982)~~ (61-5 done 1982 = 56)

NO.	SIZE	LOCATION	NO.	SIZE	LOCATION	DATE
1.	3,000 KVA	EAST SUBSTATION	33.	100 KVA	LL#7	
2.	3,000 "	" "	34.	100 "	" "	✓
3.	100 "	LL#2-DB26	35.	100 "	" "	✓
4.	100 "	" "	36.	100 "	WW#3	✓
5.	100 "	" "	37.	100 "	" "	✓
6.	100 "	LL#2-DB4A	38.	100 "	" "	✓
7.	100 "	" "	39.	100 "	LL#6	✓
8.	100 "	" "	40.	100 "	" "	
9.	100 "	LL#2-DB3	41.	100 "	" "	
10.	100 "	" "	42.	100 "	LL#5	(2)
11.	100 "	" "	43.	100 "	" "	(2)
12.	100 "	LL#3-EB4A	44.	100 "	" "	(2)
13.	100 "	" "	45.	2,000 "	WEST SUBSTATION	(
14.	100 "	" "	46.	2,000 "	" "	(
15.	333 "	AM NITRATE-FN54	47.	100 "	ADMIN & TELE.	
16.	333 "	" "	48.	100 "	" "	
17.	333 "	" "	49.	100 "	" "	
18.	150 "	AM NITRATE-FE17	50.	225 "	BLDG. 1034 ADDITION	
19.	150 "	" "	51.	150 "	PH#6-1037	
20.	150 "	" "	52.	750 "	BLDG 1067	✓
21.	100 "	" "	53.	500 "	BLDG 1035 ADDITION	✓
22.	100 "	" "	54.	1,500 "	DEPOT SUBSTATION	✓
23.	100 "	" "	55.	150 "	BLDG. U-4	✓
24.	300 "	LL#4-613A	56.	150 "	" "	✓
25.	150 "	LL#4-POWER HOUSE	57.	150 "	" "	✓
26.	150 "	" "	58.	500 "	LL#2-DB27	
27.	150 "	" "	59.	167 "	WW#4	(2)
28.	500 "	LL#4-68	60.	167 "	" "	(2)
29.	250 "	C-SUBSTATION #3	61.	167 "	" "	(2)
30.	250 "	" "				
31.	250 "	" "				
32.	250 "	" "				

- TESTS:
- (1) SIMPLE MEGGER
  - (2) DRAW OIL SAMPLES N/SEA AS RE
  - (3) OIL TEST RESULTS
  - (4) PCB LEVEL CERTIFICATION
- UNIT = Self contained unit substation.

(R) - Held due to off line status in next list.



# ELECTRICAL TESTING SERVICES, INC.



930 CASS STREET • NEW CASTLE, PA 16101 • (412) 658-1611, 652-5568

## INSULATING OIL TEST REPORT

11-21-89

SHEET No: 63 OF: 63

CUSTOMER: RAVENNA ARSENAL INC.  
 ADDRESS: 8451 STATE RT. 5, RAVENNA, OH  
 OWNER USER: SAME  
 ADDRESS: SAME  
 EQUIPMENT LOCATION: PLANT.  
 OWNER IDENTIFICATION: NEW TRANSFORMER, NO NAMEPLATE, TAG # 62

DATE: 89-11-21  
 AIR TEMP: --  
 DATE LAST TEST: 11-1-81  
 LAST TEST REPORT No: --  
 PROJECT No: 6414  
 REL. HUMIDITY: --

*Lk #7 BOILER WESTINGHOUSE SS # 6946174 300KVA*

YEAR	DEVICE	SP. GRAVITY	DIELECT. STRENGTH	NEU. No. Mg KOH/gm	COLOR	IFT	PCB
1989	4160--480 V XEMR	0.886	15.0KV	0.15 PASSED	1.0	36.3	112.27 1242

### PHYSICAL CONDITION

YEAR	SERVICE PERFORMED	TEMP	PRES. VAC	PAINT	CLEAN BUSHING	LEAKS	RECOMMENDATION
1989	INSPECTED	--	--	OK	---	NONE	OIL SHOULD BE FILTERED

REMARKS: DIELECTRIC STRENGTH IS VERY LOW. OIL SHOULD BE FILTERED.  
 TRANSFORMER IS PCB CONTAMINATED.  
 DETECTION LIMIT IS + 10 %

TESTED BY: VS

SUBMITTED BY: *[Signature]* HAROLD MOSLEY Jr, EE



# ELECTRICAL TESTING SERVICES, INC.

930 CASS STREET • NEW CASTLE, PA 16101 • (412) 658-1611, 652-5568



## INSULATING FLUID TEST REPORT

5-25-78

SHEET No: 1 OF: 1  
PROJECT No: T&M  
REL. HUMIDITY: --

CUSTOMER: BRUCE & MERRILEES ELEC. CO DATE: 88-05-25  
ADDRESS: 930 CASS ST NEW CASTLE. AIR TEMP: ---  
OWNER USER: RAVENNA ARSENAL INC. DATE LAST TEST: ---  
ADDRESS: RAVENNA, OH 44266 LAST TEST REPORT No: ---  
EQUIPMENT LOCATION: ---  
OWNER IDENTIFICATION: 100 KVA TRANSFORMERS.

#7

SAMPLE No.	DEVICE	DESIGNATION	AVERAGE DIELECT. STRENGTH	NEUT. Mg KOH/g	CoLOR	ARCLOR	PPM
1	100 KVA TRANSFORMER	S.N. # 4080718	---	---	---	1260	1
2	100 KVA TRANSFORMER	S.N. # 4656183	---	---	---	1260	2
3	100 KVA TRANSFORMER	S.N. # 4656128	---	---	---	1260	NONE

REMARKS: THE TRANSFORMERS ARE NON PCB.  
DETECTION LIMIT IS + 10 %  
SAMPLES REPORTED AS NONE DETECTED CAN BE CONSIDERED TO CONTAIN LESS THAN 1 PPM.

SUBMITTED BY:  
TEST REPORT No:

HAROLD MOSLEY JR, E.E.



# ELECTRICAL TESTING SERVICES, INC.

930 CASS STREET • NEW CASTLE, PA 16101 • (412) 658-1611, 652-5568



TO: RAVENNA ARSENAL INC.  
 : RAVENNA, OH 44266.

DATE: 88-06-28 : JOB: T&M  
 ATTENTION: F.J. COACH  
 RE: PCB TEST RESULTS OF 100 KVA XFMRs.

WE ARE SENDING YOU:  Attached :  Under separate cover via: MAIL the following.

TEST REPORT:   
 COPY OF LETTER:  
 SPECIFICATIONS:  
 OTHERS:

COPIES	DATE	No	DESCRIPTION
1	88-05-25	1	PCB TEST RESULT OF TRANSFORMERS 100 KVA

THESE ARE TRANSMITTED as checked below:

For your record:   
 For your use:   
 As requested:

REMARKS:

SIGNED:  Harold Mosley Jr. E.E.  
 Complete Power Systems Testing



# TRANSFORMER TECHNOLOGIES

## PCB ANALYSIS

COMPANY NAME Ravenna Arsenal, Inc.  
Ravenna, OH 44266  
Attn: Mr. Frank Koch

DATE RECEIVED \_\_\_\_\_  
REPORT DATE 2/09/84

<u>SAMPLE IDENTIFICATION</u>	<u>SERIAL NUMBER</u>	<u>PCB CONCENTRATIONS</u>
<u>(2)</u>	<u>945402</u>	<u>Less than 1 ppm</u>
<u>3</u>	<u>64L3280</u>	<u>260 ppm</u> ✓
<u>/ 4</u>	<u>H69723-1468AA</u>	<u>Less than 1 ppm</u>
<u>5</u>	<u>6284572</u>	<u>124 ppm</u> ✓
<u>6</u>	<u>10255</u>	<u>Less than 1 ppm</u>
<u>8</u>	<u>367837</u>	<u>Less than 1 ppm</u>
<u>(9)</u>	<u>292866</u>	<u>Less than 1 ppm</u>
<u>/ 10</u>	<u>293869</u>	<u>Less than 1 ppm</u>
<u>/ 11</u>	<u>293875</u>	<u>Less than 1 ppm</u>
<u>(12)</u>	<u>290332</u>	<u>Less than 1 ppm</u>
<u>13</u>	<u>283054</u>	<u>Less than 1 ppm</u>
<u>(14)</u>	<u>2830537</u>	<u>Less than 1 ppm</u>
<u>/ 15</u>	<u>291115</u>	<u>Less than 1 ppm</u>
<u>(16)</u>	<u>261116</u>	<u>Less than 1 ppm</u>
<u>17</u>	<u>70AA2175</u>	<u>1 ppm</u>

CERTIFIED BY:

Jane M Hansen  
ANALYTICAL CHEMIST

(Page 1 of 7)

# TRANSFORMER TECHNOLOGIES

## PCB ANALYSIS

COMPANY NAME Ravenna Arsenal, Inc.  
Ravenna, OH 44266  
Attn: Mr. Frank Koch

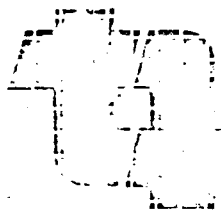
DATE RECEIVED \_\_\_\_\_  
REPORT DATE 2/09/84

<u>SAMPLE IDENTIFICATION</u>	<u>SERIAL NUMBER</u>	<u>PCB CONCENTRATIONS</u>
<u>/ 18</u>	<u>3630-69</u>	<u>4 ppm</u>
<u>(19)</u>	<u>2730225</u>	<u>4 ppm</u>
<u>(20)</u>	<u>290333</u>	<u>Less than 1 ppm</u>
<u>/ 24</u>	<u>6694985</u>	<u>Less than 1 ppm</u>
<u>(25)</u>	<u>747037</u>	<u>Less than 1 ppm</u>
<u>26</u>	<u>6290669</u>	<u>Less than 1 ppm</u>
<u>27</u>	<u>1814269</u>	<u>8 ppm</u>
<u>(28)</u>	<u>285805</u>	<u>Less than 1 ppm</u>
<u>(29)</u>	<u>5152223</u>	<u>6 ppm</u>
<u>(30)</u>	<u>5152220</u>	<u>7 ppm</u>
<u>31</u>	<u>1279982</u>	<u>8 ppm</u>
<u>33</u>	<u>291120</u>	<u>Less than 1 ppm</u>
<u>34</u>	<u>291117</u>	<u>Less than 1 ppm</u>
<u>(34A)</u>	<u>287089</u>	<u>Less than 1 ppm</u>
<u>35</u>	<u>287087</u>	<u>Less than 1 ppm</u>

CERTIFIED BY:

Jane M. Hansen  
ANALYTICAL CHEMIST

(Page 2 of 7)



# TRANSFORMER TECHNOLOGIES

## PCB ANALYSIS

COMPANY NAME Ravenna Arsenal, Inc.  
Ravenna, OH 44266  
 Attn: Mr. Frank Koch

DATE RECEIVED \_\_\_\_\_  
 REPORT DATE 2/09/84

<u>SAMPLE IDENTIFICATION</u>	<u>SERIAL NUMBER</u>	<u>PCB CONCENTRATIONS</u>
<u>36</u>	<u>296791</u>	<u>Less than 1 ppm</u>
<u>39</u>	<u>5152216</u>	<u>16 ppm</u>
<u>40</u>	<u>21238</u>	<u>Less than 1 ppm</u>
<u>41</u>	<u>27073</u> <i>27173 (nd) on attached document</i>	<u>3 ppm</u>
<u>42</u>	<u>729824</u>	<u>16 ppm</u>
<u>43</u>	<u>3920</u>	<u>Less than 1 ppm</u>
<u>44</u>	<u>947799</u>	<u>2 ppm</u>
<u>45</u>	<u>947798</u>	<u>1 ppm</u>
<u>46</u>	<u>12968</u>	<u>Less than 1 ppm</u>
<u>47</u>	<u>729823</u>	<u>19 ppm</u>
<u>48</u>	<u>946820</u>	<u>4 ppm</u>
<u>49</u>	<u>6575997</u>	<u>Less than 1 ppm</u>
<u>50</u>	<u>12601</u>	<u>Less than 1 ppm</u>
<u>51</u>	<u>12602</u>	<u>Less than 1 ppm</u>
<u>52</u>	<u>1191214</u>	<u>47 ppm</u>

CERTIFIED BY: Jane M Hansen  
 ANALYTICAL CHEMIST

# TRANSFORMER TECHNOLOGIES

## PCB ANALYSIS

COMPANY NAME Ravenna Arsenal, Inc.  
Ravenna, OH 44266  
Attn: Mr. Frank Koch

DATE RECEIVED \_\_\_\_\_  
REPORT DATE 2/09/84

<u>SAMPLE IDENTIFICATION</u>	<u>SERIAL NUMBER</u>	<u>PCB CONCENTRATIONS</u>
<u>53</u>	<u>2983370</u>	<u>45 ppm</u>
<u>54</u>	<u>2983372</u>	<u>46 ppm</u>
<u>55</u>	<u>30726</u>	<u>Less than 1 ppm</u>
<u>56</u>	<u>948645</u>	<u>1 ppm</u>
<u>57</u>	<u>1816064</u>	<u>Less than 1 ppm</u>
<u>58</u>	<u>299779</u>	<u>Less than 1 ppm</u>
<u>59</u>	<u>6694956</u>	<u>41 ppm</u>
<u>60</u>	<u>342935</u>	<u>Less than 1 ppm</u>
<u>61</u>	<u>6694983</u> ✓	<u>166 ppm</u> ✓
<u>62</u>	<u>729822</u>	<u>11 ppm</u>
<u>63</u>	<u>286068</u>	<u>Less than 1 ppm</u>
<u>64</u>	<u>303765</u>	<u>Less than 1 ppm</u>
<u>65</u>	<u>6558854</u> ✓	<u>422 ppm</u> ✓
<u>66</u>	<u>8335571</u>	<u>3 ppm</u>
<u>67</u>	<u>290327</u>	<u>Less than 1 ppm</u>

CERTIFIED BY:

Jane M Hansen  
ANALYTICAL CHEMIST

(Page 4 of 7)

# TRANSFORMER TECHNOLOGIES

## PCB ANALYSIS

COMPANY NAME Ravenna Arsenal, Inc.  
Ravenna, OH 44266  
 Attn: Mr. Frank Koch

DATE RECEIVED \_\_\_\_\_  
 REPORT DATE 2/09/84

### SAMPLE IDENTIFICATION

### SERIAL NUMBER

### PCB CONCENTRATIONS

68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82

21239  
21240  
269939  
140649  
269949  
No Plate  
7311-6201177 RR  
7311-6021177  
2730221  
5152219  
290325  
No Plate  
291118  
3919  
H697230Y684A  
6694988

Less than 1 ppm  
Less than 1 ppm  
Less than 1 ppm  
Less than 1 ppm  
Less than 1 ppm  
Less than 1 ppm  
38 ppm  
3 ppm  
4 ppm  
Less than 1 ppm  
Less than 1 ppm  
Less than 1 ppm  
Less than 1 ppm  
Less than 1 ppm  
Less than 1 ppm

CERTIFIED BY:

Jane M. Hansen  
 ANALYTICAL CHEMIST

# TRANSFORMER TECHNOLOGIES

## PCB ANALYSIS

COMPANY NAME Ravenna Arsenal, Inc.  
Ravenna, OH 44266  
 Attn: Mr. Frank Koch

DATE RECEIVED \_\_\_\_\_  
 REPORT DATE 2/09/84

SAMPLE IDENTIFICATION

SERIAL NUMBER

PCB CONCENTRATIONS

83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

2020886  
3296  
293227  
521003  
6717024  
6284551  
3091041  
290277  
6550907  
2281464  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Less than 1 ppm  
Less than 1 ppm  
Less than 1 ppm  
Less than 1 ppm  
47 ppm  
189 ppm.  
15 ppm  
Less than 1 ppm  
Less than 1 ppm  
83 ppm  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CERTIFIED BY: Joan M Hansen  
 ANALYTICAL CHEMIST

# TRANSFORMER TECHNOLOGIES

## PCB ANALYSIS

COMPANY NAME Ravenna Arsenal, Inc.  
Ravenna, OH 44266  
 Attn: Mr. Frank Koch

DATE RECEIVED 1/30/84  
 REPORT DATE 2/2/84

<u>SAMPLE IDENTIFICATION</u>	<u>SERIAL NUMBER</u>	<u>PCB CONCENTRATIONS</u>
<u>TT #7</u>	<u>6564949</u>	<u>596 ppm</u>
<u>TT #32</u>	<u>6363538</u>	<u>35 ppm</u>
<u>TT #37</u>	<u>287086</u>	<u>Less than 1 ppm</u>

CERTIFIED BY: Jane M. Hansen  
 ANALYTICAL CHEMIST

P C B T E S T S

03-23-90

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION, C

ITEM SERIAL NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	3089979	011	18411	854	Transformer	03239001	29 @ 1254	
2.	3089978	011	18413	854	"	03239002	36 @ 1254	
3.	3089372	011	18410	854	"	03239003	23 @ 1254	
<del>4.</del>	12776	011	18409	854	"	03239004	ND	
5.	3089983	011	18406	854	"	03239005	28 @ 1254	
6.	6956873	011	ROP-15905	854	"	03239006	381 @ 1260	
7.	3089982	011	18344	854	"	03239007	37 @ 1254	
8.	3091044	011	18408	854	"	03239008	5 @ 1260	
9.	3089375	011	18348	854	"	03239009	11 @ 1254	
10.	3091043	011	18349	854	"	03239010	15 @ 1260	
11.	3089980	011	18346	854	"	03239011	28 @ 1254	
12.	12777	011	18350	854	"	03239012	ND	
13.	3130703	011	18452	854	"	03239013	21 @ 1260	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

MAINTENANCE DEPT.

MAR 23 1990

718 N. G. H. 111-434516

AUTHORIZED SIGNATURE

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

44278

P.O. 20049



3-14-90

P C B T E S T S

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_  
 TIME OUT: \_\_\_\_\_

<u>ITEM NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
1.	6717017	Oil	18306	854	Transformer	03149001	92 @ 1260	
2.	6717021	Oil	18290	854	Transformer	03149002	79 @ 1260	
<del>3.</del>	none	Oil	ROP-18432	854	Transformer	03149003	6 @ 1254	
4.	285305	Oil	ROP-6704	854	Transformer	03149004	ND	

Detection limit is 2 ppm.

ND - None Detected

**RECEIVED**  
 MAINTENANCE DEPT.

MAR 10 1990

AM PM  
 7 8 9 10 11 12 1 2 3 4 5 6

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S. D. Myers, Inc.  
 LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

P C B T E S T S

P.O. 20375

4-26-90

TIME IN: \_\_\_\_\_

DATE SAMPLE COLLECTION

TIME OUT: \_\_\_\_\_

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
①	288905	Oil	<del>ROP</del> 2653 POD	LP111	Transformer	04269001	ND	

Detection limit is 2 ppm.

RECEIVED  
MAINTENANCE DEPT.

MAY 29 1990

AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

44278



P C B T E S T S

NOVEMBER 30, 1988

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM REF NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
<del>1.</del>	S/N 94T103	TRANSFORMER	ROP-11377	854	OIL	11308801	3 @ 1260	1
<del>2.</del>	S/N 293203	TRANSFORMER	POD-2602	854	OIL	11308802	ND	
<del>3.</del>	S/N 293225	TRANSFORMER	POD-2640	854	OIL	11308803	ND	
<del>4.</del>	S/N 293214	TRANSFORMER	POD-2601	854	OIL	11308804	ND	
<del>5.</del>	S/N 945500	TRANSFORMER	<del>ROP</del> ROP-11378	854	OIL	11308805	ND	
<del>6.</del>	NONE	TRANSFORMER	ROP-11379	854	OIL	11308806	3 @ 1260	

ND (NONE DETECTED)  
LOWER DETECTABLE LIMIT = 2 mg/kg

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Lab Manager  
 LABORATORY NAME S. D. Myers, Inc.  
 LABORATORY ADDRESS 180 South Ave., Tallmadge,  
44278

ENGR - JURA  
P.O. 27754

RAVENNA ARSENAL, INC.

6/21/93

DATE SAMPLE COLLECTED

27754 (BATCH #4)

PCB TESTS

PURCHASE ORDER NUMBER

Ted Cobb  
SAMPLE COLLECTED BY TED COBB

PLANT NO.	SERIAL NO.	ITEM	BLDG. LOC.	FLUID	LAB ID NO.	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
1. ✓	ROP-18445	946603	TRANSFORMER	854	OIL	06219301	ND	2 ppm
2.	ROP-18467	2983374	"	"	"	06219302	60 @ 1260	
3. ✓	ROP-18446	947010	"	"	"	06219303	5 @ 1254	
4. ✓	NONE	742027840	"	"	"	06219304	ND	2 ppm
5. ✓	NONE (WBPS)	TD-00026	"	"	"	06219305	ND	2 ppm
6. ✓	NONE	D-4989-5	"	"	"	06219306	10 @ 1260	
7.	POD-2620	290282	"	"	"	06219307	ND	2 ppm
8.	POD-2612	297835	"	"	"	06219308	ND	2 ppm
9.	POD-2648	286821	"	"	"	06219309	ND	2 ppm
10.	POD-2611	297830	"	"	"	06219310	ND	2 ppm
11.	POD-2661	291093	"	"	"	06219311	ND	2 ppm
12.	POD-2051	299710	"	"	"	06219312	ND	2 ppm
13. ✓	ROP-18466	2983369	"	"	"	06219313	59 @ 1260	
14. ✓	ROP-18468	286093	"	"	"	06219314	ND	2 ppm
15. ✓	ROP-18578	3112486	"	"	"	06219315	32 @ 1260	
16.	POD-2610	297837	"	"	"	06219316	ND	2 ppm
17.	NONE	732N052001	"	"	"	06219317	ND	2 ppm
18.								

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH GAS CHROMATOGRAPHY METHODS PRESCRIBED IN ASTM D-40-59 OR EPA SW846 METHOD 8080.

AUTHORIZED SIGNATURE

John R. Sans

TYPED NAME

John R. Sans

TITLE

Laboratory Supervisor

LABORATORY NAME

S. D. Myers, Inc.

DATE LAB RECEIVED SAMPLE 6-25-93

DATE REPORTED

6-30-93

Ted R. Cobb  
SAMPLE COLLECTED BY T. COBB

PLANT NO.	SERIAL NO.	ITEM	BLDG. LOC.	FLUID	LAB ID NO.	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
1. ✓	18548	TRANSFORMER	854	OIL	07159301	ND		
2. ✓	18549	"	"	"	07159302	ND		
3. ✓	18550	"	"	"	07159303	ND		
4. ✓	ROP-18356	"	"	"	07159304	ND		
5.	NONE	K211291Y71AA	"	"	07159305	ND		
6. ✓	18525	6586664	"	"	07159306	146 @1260	2PPM	
7. ✓	NONE	J789542K71AA	"	"	07159307	ND		
8. ✓	NONE	J789546K71AA	"	"	07159308	ND		
9. ✓	ROP-15811	301893	"	"	07159309	ND		
10. ✓	18421	944328	"	"	07159310	ND		
11.	18526	6586653	"	"	07159311	195 @1260	2PPM	
12.	18914	6585437	"	"	07159312	226 @1260	2PPM	
13.	18913	6587367	"	"	07159313	57 @1260	2PPM	
14. ✓	ROP-18495	6577904	"	"	07159314	40 @1260	2PPM	
15. ✓	18533	5367317	"	"	07159315	ND		
16.	18532	6717020	"	"	07159316	70 @1260	2PPM	
17.	18516	6717023	"	"	07159317	75 @1260	2PPM	
18.	18912	6587358	"	"	07159318	49 @1260	2PPM	

ORIG: D. E. JURA  
CC: PURCHASING T. T. SCOTT  
J. F. FULTZ  
L. J. LAVIN  
T. M. CHANDA  
J. D. MCGEE

HISTORICAL RECORD FILE OF EACH TX.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH GAS CHROMATOGRAPHY METHODS PRESCRIBED IN ASTM D-40-59 OR EPA SW846 METHOD 8080.

AUTHORIZED SIGNATURE Randy D. Stebbins  
TYPED NAME Randy Stebbins  
TITLE Lab Manager  
LABORATORY NAME S. D. Myers  
DATE LAB RECEIVED SAMPLE 7/23/93  
DATE REPORTED 8/4/93

RAVENNA ARSENAL, INC.

JULY 15, 1993

27754 (BATCH #6) PAGE 2 OF 2.  
PURCHASE ORDER NUMBER

PCB TESTS

DATE SAMPLE COLLECTED

Ted R. Cobb  
SAMPLE COLLECTED BY TED COBB

	PLANT NO.	SERIAL NO.	ITEM	BLDG. LOC.	FLUID	LAB ID NO.	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
1.	18946	2983375	TRANSFORMER	854	OIL	07159319	63 @1260	2PPM	
2.	18977	NONE	OCB	"	"	07159320	ND		
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
14.									
15.									
16.									
17.									
18.									

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH GAS CHROMATOGRAPHY METHODS PRESCRIBED IN ASTM D-40-59 OR EPA SW846 METHOD 8080.

AUTHORIZED SIGNATURE *Randy Stebbins*  
 TYPED NAME Randy Stebbins  
 TITLE Lab Manager  
 LABORATORY NAME S.D. Myers  
 DATE LAB RECEIVED SAMPLE 7/23/93  
 DATE REPORTED 8/4/93

RAVENNA ARSENAL, INC.

P.C.B. TESTS

11-9-'89

11-9-89

DATE SAMPLE COLLECTED

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

RAVENNA ARSENAL, INC.

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (PPM)	REMARKS
1.	SN 7220335	Oil	None	848	Transformer	1198902	114 @ 1260	
2.	SN 286366	Oil	ROP 6787	848	Transformer	1198901	ND	
3.	SN 286377	Oil	ROP 6788	848	Transformer	1198903	ND	

Detection limit is 2 PPM.

RECEIVED  
NOV 14 1989

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE

*Bonita K. Colvin*

TYPED NAME Bonita K. Colvin

TITLE Quality Control Supervisor

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

NOV 14 '89 15:33 SD MYERS



P C B T E S T S

01-08-90  
DATE SAMPLE COLLECTION

IN: \_\_\_\_\_  
OUT: \_\_\_\_\_

NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	73ZN052001	Transformer	none	854	10 KVA	01089001	ND	
2.	73TJ039001	Transformer	none	854	15 KVA	01089002	ND	
3.	74TD008006	Transformer	none	854	10 KVA	01089003	ND	

Detection limit is 2 ppm.

RECEIVED  
MAY 13 1990  
ASST. DIR. 123456  
A.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE David P. Myers  
TYPED NAME David P. Myers

TITLE Laboratory Manager  
LABORATORY NAME S. D. Myers, Inc.  
LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

CT. Datto  
McConnell

RAVENNA ARSENAL, INC.

P.C.B. TESTS

8-29-91 & 8-30-91

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	CR7841-FD-3	Oil	18260	854	OCB	08299101	ND	
2.	946604	"	18261	"	Transformer	08299102	ND	
3.	3089376 ✓	"	18438	"	"	08299103	24 @ 1254	
4. SW	3089482	"	18433	LEA 12	"	08299104	24 @ 1254	
5.	3089373 ✓	"	ROP18415	"	"	08309101	24 @ 1254	
6.	3089380 ✓	"	ROP18424	"	"	08309102	24 @ 1254	
7.	3130153	"	18474	"	"	08309103	39 @ 1260	
8.	3024965	"	18472	"	"	08309104	7 @ 1260	
9.	none	"	ROP18473	"	OCB	08309105	ND	

Detection limit is 2 ppm

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

*McConnell*

RAVENNA ARSENAL, INC.

P.C.B. TESTS

8-29-91 & 8-30-91

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	CR7841-FD-3	oil	18260	854	OCB	08299101	ND	
2.	946604	"	18261	"	Transformer	08299102	ND	
3.	3089376	"	18438	"	"	08299103	24 @ 1254	
4.	3089482	"	18433	"	"	08299104	24 @ 1254	
5.	3089373	"	ROP18415	"	"	08309101	24 @ 1254	
6.	3089380	"	ROP18424	"	"	08309102	24 @ 1254	
7.	3130153	"	18474	"	"	08309103	39 @ 1260	
8.	3024965	"	18472	"	"	08309104	7 @ 1260	
9.	none	"	ROP18473	"	OCB	08309105	ND	

Detection limit is 2 ppm

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE *David P. Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

## RAVENNA ARSENAL, INC.

8-29-91 &amp; 8-30-91

TIME IN: \_\_\_\_\_

P.C.B. TESTS

DATE SAMPLE COLLECTION

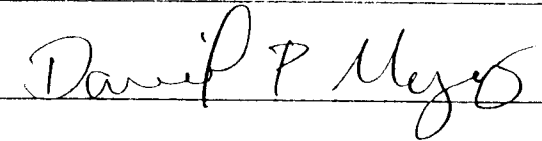
TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	CR7841-FD-3	011	18260	854	OCB	08299101	ND	
2.	946604	"	18261	"	Transformer	08299102	ND	
3.	3089376	"	18438	"	"	08299103	24 @ 1254	
4.	3089482	"	18433	"	"	08299104	24 @ 1254	
5.	3089373	"	ROP18415	"	"	08309101	24 @ 1254	
6.	3089380	"	ROP18424	"	"	08309102	24 @ 1254	
7.	3130153	"	18474	"	"	08309103	39 @ 1260	
8.	3024965	"	18472	"	"	08309104	7 @ 1260	
9.	none	"	ROP18473	"	OCB	08309105	ND	

Detection limit is 2 ppm

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

*McConnell*

RAVENNA ARSENAL, INC.

P.C.B. TESTS

8-29-91 & 8-30-91

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_  
 TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	CR7841-FD-3	011	18260	854	OCB	08299101	ND	
2.	946604	"	18261	"	Transformer	08299102	ND	
3.	3089376	"	18438	"	"	08299103	24 @ 1254	
4.	3089482	"	18433	"	"	08299104	24 @ 1254	
5.	3089373	"	ROP18415	"	"	08309101	24 @ 1254	
6.	3089380	"	ROP18424	"	"	08309102	24 @ 1254	
7.	3130153	"	18474	"	"	08309103	39 @ 1260	
8.	3024965	"	18472	"	"	08309104	7 @ 1260	
9.	none	"	ROP18473	"	OCB	08309105	ND	

Detection limit is 2 ppm

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE *David P. Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

Sample	Ref. #	Aroclor Type	PPM
<del>#15, S/N 707040</del>	T-10335	1260	6
<del>#16, S/N 707042</del>	T-10336	1260	6
<del>#17, S/N 707041</del>	T-10337	1260	11
#18, S/N D4871-6	T-10338	1254	15
		1260	16
		TOTAL	31
#19, S/N D4871-5	T-10339- ROP 21231	1254	83
		1260	104
		TOTAL	187
#20, S/N D4871-4	T-10340- ROP 21232	1254	37
		1260	48
		TOTAL	85
#21, S/N D4760-1	T-10341	1254	23
		1260	29
		TOTAL	52
#22, S/N D4760-3	T-10342 ROP 21228	1254	14
		1260	17
		TOTAL	31
#23, S/N D4760-2	T-10343 ROP 21227	1254	13
		1260	13
		TOTAL	26
#24, S/N H26674969P	T-10344	1260	21
#25, S/N D4871-3	T-10345 ROP-21401	1260	28
#26, S/N D4871-2	T-10346 ROP-21403	1260	17
#27, S/N D4871-1	T-10347 ROP-21402	1260	17
#28, S/N 697HA64001	T-10348	NONE DETECTED*	
#29, S/N 3110588	T-10349 ROP-18942	1260	18
#30, S/N 3110587	T-10350 - ROP-18941	1242	32
		1260	26
		TOTAL	58
#31, S/N 3110589	T-10351	1260	24
#32, S/N 3110590	T-10352	1260	17

Sample	Ref. #	Aroclor Type	PPM
<del>#15, S/N 707040</del>	T-10335	1260	6
<del>#16, S/N 707042</del>	T-10336	1260	6
<del>#17, S/N 707041</del>	T-10337	1260	11
#18, S/N D4871-6	T-10338	1254	15
		1260	16
		TOTAL	31
#19, S/N D4871-5	T-10339	1254	83
		1260	104
		TOTAL	187
#20, S/N D4871-4	T-10340	1254	37
		1260	48
		TOTAL	85
#21, S/N D4760-1	T-10341	1254	23
		1260	29
		TOTAL	52
#22, S/N D4760-3	T-10342	1254	14
		1260	17
		TOTAL	31
#23, S/N D4760-2	T-10343	1254	13
		1260	13
		TOTAL	26
#24, S/N H26674969P	T-10344	1260	21
#25, S/N D4871-3	T-10345	1260	28
#26, S/N D4871-2	T-10346	1260	17
#27, S/N D4871-1	T-10347	1260	17
#28, S/N 697HA64001	T-10348	NONE DETECTED*	
#29, S/N 3110588	T-10349	1260	18
#30, S/N 3110587	T-10350 - ROP 18991	1242	32
		1260	26
		TOTAL	58
#31, S/N 3110589	T-10351	1260	24
#32, S/N 3110590	T-10352	1260	17

*Enclosure #3*

**ELECTRO-ANALYTICAL INC.**

7255 INDUSTRIAL PARK BLVD.

SUITE A

MENTOR, OHIO 44060

216-951-3514

December 20, 1985

Ragon Hi-Voltage Services, Inc.  
633 Bell Flower, SW  
Canton, OH 44710

Attention: Mr. Don Ragon  
RE: Job #203, Ravenna Arsenal

E.A.I. Project #T85-1102  
Chromatographic analysis for PCB of 53 oil samples

Accuracy: Plus or minus 10%  
Detection Limit: 1PPM

<u>Sample</u>	<u>Ref. #</u>	<u>Aroclor Type</u>	<u>PPM</u>
#3, S/N D5167-2	T-10323 <i>ROP 21263</i>	1260	112
#4, S/N D5167-1	T-10324 <i>ROP 21062</i>	1260	109
#5, S/N D5167-3	T-10325 <i>ROP 21261</i>	1260	115
#6, S/N M6043	T-10326	1254	3
<del>#7, S/N M6041</del>	<del>T-10327</del>	<del>1254</del>	<del>3</del>
#8, S/N M6040	T-10328	1254	3
#9, S/N M5180	T-10329	1260	70
#10, S/N M2523	T-10330	1260	78
#11, S/N 947797	T-10331	1260	3
#12, S/N 6586943	T-10332 <i>ROP 15556</i>	1260	111
#13, S/N 6586998	T-10333 <i>ROP 15554</i>	1260	156
#14, S/N 6586925	T-10334	1260	123



<u>Sample</u>	<u>Ref. #</u>	<u>Aroclor Type</u>	<u>PPM</u>
#33, S/N 68AB398B	T-10353	NONE DETECTED*	
#34, S/N 88AB3987	T-10354	NONE DETECTED*	
#35, S/N 68AB3453	T-10355	NONE DETECTED*	
#36, S/N 6586955	T-10356	1260	192
#37, S/N 6586986	T-10357	1260	117
#38, S/N 658503	T-10358	1260	110
#39, S/N 6586968	T-10359- ROR 18597	1260	92
#40, S/N 6586953	T-10360- ROR 13596	1260	98
#41, S/N 6587441	T-10361	1260	49
#47, S/N 6587001	T-10362	1260	146
#48, S/N 6586938	T-10363	1260	138
#49, S/N 6385534	T-10364	1260	136
#50, S/N H319531P71AA	T-10365	1260	11
#51, S/N 73H543053	T-10366	NONE DETECTED*	
#52, S/N H319330P71AA	T-10367	1260	9
#53, S/N J927096T71AA	T-10368	NONE DETECTED*	
#55, S/N 758846	T-10369	1260	23
#56, S/N 22384	T-10370	1260	52
#57, S/N 22383	T-10371	1260	52
#58, S/N H257428-68P	T-10372	1242	3
		1260	178
		TOTAL	181
#59, S/N 76A393692	T-10373	NONE DETECTED*	
#60, S/N 76A333964	T-10374	NONE DETECTED*	
#61, S/N 76A394544	T-10375	NONE DETECTED*	

\*Samples reported as None Detected can be considered to contain less than 1 PPM.

Tested and Certified by

*Jeffrey A. Herbert*  
 Jeffrey A. Herbert  
 Laboratory Director

MASTER List

APPENDIX A

M.O. 327-1841

JUNE 11 1984

P.O. 10348

SPECIFICATION ~~PS-366~~ 56EA.

EQUIPMENT TO BE TESTED

TRANSFORMERS

(61 - 5 done 1982 = 56)

NO.	SIZE	LOCATION	NO.	SIZE	LOCATION	V. 1978
1.	3,000 KVA	EAST SUBSTATION	33.	100 KVA	LL#7	✓
2.	3,000 "	" "	34.	100 "	" "	✓
3.	100 "	LL#2-DB26	35.	100 "	" "	✓
4.	100 "	" "	36.	100 "	WW#3	✓
5.	100 "	" "	37.	100 "	" "	✓
6.	100 "	LL#2-DB4A	38.	100 "	" "	✓
7.	100 "	" "	39.	100 "	LL#6	✓
8.	100 "	" "	40.	100 "	" "	✓
9.	100 "	LL#2-DB3	41.	100 "	" "	✓
10.	100 "	" "	42.	100 "	LL#5	(R)
11.	100 "	" "	43.	100 "	" "	(R)
12.	100 "	LL#3-EB4A	44.	100 "	" "	(R)
13.	100 "	" "	45.	2,000 "	WEST SUBSTATION	( )
14.	100 "	" "	46.	2,000 "	" "	( )
15.	333 "	AM NITRATE-FN54	47.	100 "	ADMIN # TELE.	✓
16.	333 "	" "	48.	100 "	" "	✓
17.	333 "	" "	49.	100 "	" "	✓
18.	150 "	AM NITRATE-FE17	50.	225 "	BLDG. 1034 ADDITION	✓
19.	150 "	" "	51.	150 "	PH#6-1037	✓
20.	150 "	" "	52.	750 "	BLDG 1067	✓
21.	100 "	" "	53.	500 "	BLDG 1035 ADDITION	✓
22.	100 "	" "	54.	1,500 "	DEPOT SUBSTATION	✓
23.	100 "	" "	55.	150 "	BLDG. U-4	✓
24.	300 "	LL#4-613A	56.	150 "	" "	✓
25.	150 "	LL#4- POWER HOUSE	57.	150 "	" "	✓
26.	150 "	" "	58.	500 "	LL#2-DB27	✓
27.	150 "	" "	59.	167 "	WW #4	(2.00)
28.	500 "	LL#4- 68	60.	167 "	" "	(2.00)
29.	250 "	C-SUBSTATION #3	61.	167 "	" "	(2.00)
30.	250 "	" "				
31.	250 "	" "				
32.	250 "	" "				

- TESTS:
- (1) SIMPLE MEGGER
  - (2) DRAW OIL SAMPLES W/SEAL AS REC
  - (3) OIL TEST RESULTS
  - (4) PCB LEVEL CERTIFICATION UNIT - Self contained unit substation.
  - (5) WRITTEN REPORT.

(R) - hold due to off line status for next test.

*cf: Dutton  
McConnell*

RAVENNA ARSENAL, INC.

P.C.B. TESTS

9-6-91

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARK
1.	823763	Oil	ROP18423	854	Transformer	09069101 ✓	ND	
2.	D-5009-145	"	ROP21242	"	"	09069102 X		Needs resamp1
<del>3.</del>	D-5009-140	"	ROP21243	"	"	09069103 ✓	ND	
<del>4.</del>	D-5009-146	"	ROP21244	"	"	09069104 ✓	ND	
5.	6573846	"	ROP15954	"	"	09069105 ✓	118 @ 1260	
6.	6559443	"	ROP15955	"	"	09069106 ✓	97 @ 1260	
7.	6573678	"	ROP15956	"	"	09069107 X	180 @ 1260	
<del>8.</del>	3130110	"	ROP15904	"	"	09069108 X	24 @ 1260	
9.	3089370	"	18353	"	"	09069109 ✓	25 @ 1254	
<del>10.</del>	646718	"	18354	"	"	09069110 X	ND	
<del>11.</del>	D5009-150	"	21233	"	"	09069111 ✓	ND	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE *David P. Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

P.O. 23750

*cf. Dutton  
McConnell*

RAVENNA ARSENAL, INC.

8-29-91 & 8-30-91

P.C.B. TESTS

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	CR7841-FD-3	Oil	18260	854	OCB	08299101	ND	
2.	946604	"	18261	"	Transformer	08299102	ND	
3.	3089376	"	18438	"	"	08299103	24 @ 1254	
4.	3089482	"	18433	"	"	08299104	24 @ 1254	
5.	3089373	"	ROP18415	"	"	08309101	24 @ 1254	
6.	3089380	"	ROP18424	"	"	08309102	24 @ 1254	
7.	3130153	"	18474	"	"	08309103	39 @ 1260	
8.	3024965	"	18472	"	"	08309104	7 @ 1260	
9.	none	"	ROP18473	"	OCB	08309105	ND	

Detection limit is 2 ppm

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE *David P. Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

P.C.B. TESTS

9-6-91  
DATE SAMPLE COLLECTION

ME IN: \_\_\_\_\_

ME OUT: \_\_\_\_\_

EM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
2.	D5009-147	011	21235	854	Transformer	09069112 X	ND	
3.	D5009-143	"	21234	"	"	09069113 †	ND	
4.	D5009-137	"	21237	"	"	09069114 ✓	ND	
5.	D5009-136	"	21236	"	"	09069115 ✓	ND	
6.	D5009-138	"	21238	"	"	09069116 ✓	ND	
7.	832762	"	18359	"	"	09069117 X	ND	

Detection limit is 2 ppm

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TYPED NAME David P. Myers  
TITLE Laboratory Manager  
LABORATORY NAME S. D. Myers, Inc.  
LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

*cf. Dutton  
McConnell*

RAVENNA ARSENAL, INC.

P.C.B. TESTS

9-6-91

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	823763	Oil	ROP18423	854	Transformer	09069101 ✓	ND	
2.	D-5009-145	"	ROP21242	"	"	09069102 X		Needs resample
3.	D-5009-140	"	ROP21243	"	"	09069103 ✓	ND	
4.	D-5009-146	"	ROP21244	"	"	09069104 -	ND	
5.	6573846	"	ROP15954	"	"	09069105 ✓	118 @ 1260	
6.	6559443	"	ROP15955	"	"	09069106 ✓	97 @ 1260	
7.	6573678	"	ROP15956	"	"	09069107 X	180 @ 1260	
8.	3130110	"	ROP15904	"	"	09069108 X	24 @ 1260	
9.	3089370	"	18353	"	"	09069109 ✓	25 @ 1254	
10.	646718	"	18354	"	"	09069110 X	ND	
11.	D5009-150	"	21233	"	"	09069111 ✓	ND	

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TITLE Laboratory Manager

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LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

P.C.B. TESTS

9-6-91  
DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

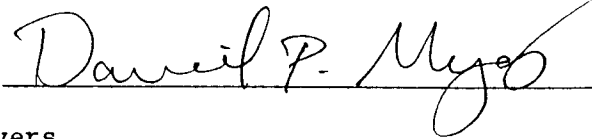
TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
12.	D5009-147	Oil	21235	854	Transformer	09069112 ✕	ND	
13.	D5009-143	"	21234	"	"	09069113 †	ND	
14.	D5009-137	"	21237	"	"	09069114 ✓	ND	
15.	D5009-136	"	21236	"	"	09069115 ✓	ND	
16.	D5009-138	"	21238	"	"	09069116 ✓	ND	
17.	832762	"	18359	"	"	09069117 ✕	ND	

Detection limit is 2 ppm

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AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

cf. Dutton  
McConnell

RAVENNA ARSENAL, INC.

P.C.B. TESTS

8-29-91 & 8-30-91

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARK
1.	CR7841-FD-3	Oil	18260	854	OCB	08299101	ND	
2.	946604	"	18261	"	Transformer	08299102	ND	
3.	3089376	"	18438	"	"	08299103	24 @ 1254	
4.	3089482	"	18433	"	"	08299104	24 @ 1254	
5.	3089373	"	ROP18415	"	"	08309101	24 @ 1254	
6.	3089380	"	ROP18424	"	"	08309102	24 @ 1254	
7.	3130153	"	18474	"	"	08309103	39 @ 1260	
8.	3024965	"	18472	"	"	08309104	7 @ 1260	
9.	none	"	ROP18473	"	OCB	08309105	ND	

Detection limit is 2 ppm

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AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278



P.O. 22647 467910

RAVENNA ARSENAL, INC.

P.C.B. TESTS

4-29-91  
DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO. (SERIAL NO.)	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARK
1.	6290650	Oil	ROP-18443 Left	854	Transformer 04299101	21 @ 1260	
2.	6365127	Oil	ROP-18442 Middle	854	" 04299102	196 @ 1260	
3.	6860089	Oil	ROP none Rt	854	" 04299103	8 @ 1260	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

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TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

P.O. 22647

RAVENNA ARSENAL, INC.

P.C.B. TESTS

4-29-91

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO. (SERIAL NO.)	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARK
1.	6290650	ROP-18443	Left	854	Transformer	04299101	21 @ 1260
2.	6365127	ROP-18442	Middle	854	"	04299102	196 @ 1260
3.	6860089	ROP none	Rt	854	"	04299103	8 @ 1260

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TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

P.O. 20899

P.C.B. TESTS

Page 2 of 2.

7-31-90  
DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	IAB I.D. #	PCB CONC. (ppm)	REMARK
1.	5360354	011	18264	854	Transformer	07319001	ND	
2.	6648565	"	ROP 18911	"	"	07319002	171 (1260)	↓
3.	6242741	"	ROP 15903	"	"	07319003	348 (1260)	
4.	656493	"	18265	"	"	07319004	ND	
5.	6537881	"	ROP 18909	"	"	07319005	269 (1260)	
6.	7841-PD-3	"	18241	"	"	07319006	ND	
7.	656494	"	18242	"	"	07319007	ND	
8.	5360354	"	18233	"	"	07319008	ND	
9.	6524318	"	18240	"	"	07319009	28 (1260)	
10.	287770	"	ROP 18275	"	"	07319010	ND	

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 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S. D. Myers  
 LABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575

RAVENNA ARSENAL, INC.

P.O. 20899

P.C.B. TESTS

Page 2 of 2.

7-31-90  
DATE SAMPLE COLLECTED

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	IAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	5360354	Oil	18264	854	Transformer	07319001	ND	
2.	6648565	"	ROP 18911	"	"	07319002	171 (1260)	↓
3.	6242741	"	ROP 15903	"	"	07319003	348 (1260)	
4.	656493	"	18265	"	"	07319004	ND	
5.	6537881	"	ROP 18909	"	"	07319005	269 (1260)	
6.	7841-FD-3	"	18241	"	"	07319006	ND	
7.	656494	"	18242	"	"	07319007	ND	
8.	5360354	"	18233	"	"	07319008	ND	
9.	6524318	"	18240	"	"	07319009	28 (1260)	
10.	287770	"	ROP 18275	"	"	07319010	ND	

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TITLE

Laboratory Manager

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RAVENNA ARSENAL, INC.

P.O. 20899

P.C.B. TESTS

Page 2 of 2.

7-31-90  
DATE SAMPLE COLLECTED

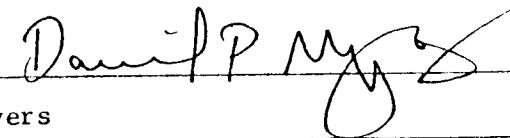
TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	5360354	Oil	18264	854	Transformer	07319001	ND	
2.	6648565	"	ROP 18911	"	"	07319002	171 (1260)	↓
3.	6242741	"	ROP 15903	"	"	07319003	348 (1260)	
4.	656493	"	18265	"	"	07319004	ND	
5.	6537881	"	ROP 18909	"	"	07319005	269 (1260)	
6.	7841-FD-3	"	18241	"	"	07319006	ND	
7.	656494	"	18242	"	"	07319007	ND	
8.	5360354	"	18233	"	"	07319008	ND	
9.	6524318	"	18240	"	"	07319009	28 (1260)	
10.	287770	"	ROP 18275	"	"	07319010	ND	

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RAVENNA ARSENAL, INC.

P.O. 20899

P.C.B. TESTS

Page 2 of 2.

7-31-90  
DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	5360354	011	18264	854	Transformer	07319001	ND	
2.	6648565	"	ROP 18911	"	"	07319002	171 (1260)	J
3.	6242741	"	ROP 15903	"	"	07319003	348 (1260)	
4.	656493	"	18265	"	"	07319004	ND	
5.	6537881	"	ROP 18909	"	"	07319005	269 (1260)	
6.	7841-FD-3	"	18241	"	"	07319006	ND	
7.	656494	"	18242	"	"	07319007	ND	
8.	5360354	"	18233	"	"	07319008	ND	
9.	6524318	"	18240	"	"	07319009	28 (1260)	
10.	287770	"	ROP 18275	"	"	07319010	ND	

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RAVENNA ARSENAL, INC.

P.O. 20899

P.C.B. TESTS

Page 2 of 2.

7-31-90  
DATE SAMPLE COLLECTION

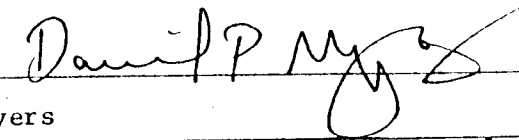
TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	5360354	Oil	18264	854	Transformer	07319001	ND	
2.	6648565	"	ROP 18911	"	"	07319002	171 (1260)	J
3.	6242741	"	ROP 15903	"	"	07319003	348 (1260)	
4.	656493	"	18265	"	"	07319004	ND	
5.	6537881	"	ROP 18909	"	"	07319005	269 (1260)	
6.	7841-PD-3	"	18241	"	"	07319006	ND	
7.	656494	"	18242	"	"	07319007	ND	
8.	5360354	"	18233	"	"	07319008	ND	
9.	6524318	"	18240	"	"	07319009	28 (1260)	
10.	287770	"	ROP 18275	"	"	07319010	ND	

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RAVENNA ARSENAL, INC.

P.O. 20899

P.C.B. TESTS

Page 2 of 2.

TIME IN: \_\_\_\_\_

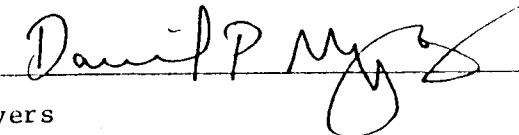
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7-31-90  
DATE SAMPLE COLLECTION

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	5360354	011	18264	854	Transformer	07319001	ND	
2.	6648565	"	ROP 18911	"	"	07319002	171 (1260)	✓
3.	6242741	"	ROP 15903	"	"	07319003	348 (1260)	
4.	656493	"	18265	"	"	07319004	ND	
5.	6537881	"	ROP 18909	"	"	07319005	269 (1260)	
6.	7841-FD-3	"	18241	"	"	07319006	ND	
7.	656494	"	18242	"	"	07319007	ND	
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TITLE Laboratory Manager

LABORATORY NAME S. D. Myers

LABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575



RAVENNA ARSENAL, INC.

P.O. 20899

P.C.B. TESTS

Page 2 of 2.

TIME IN: \_\_\_\_\_

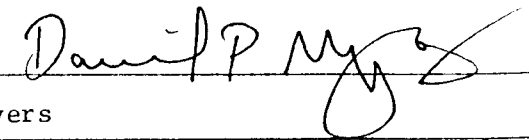
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7-31-90  
DATE SAMPLE COLLECTION

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARK
1.	5360354	Oil	18264	854	Transformer	07319001	ND	
2.	6648565	"	ROP 18911	"	"	07319002	171 (1260)	J
3.	6242741	"	ROP 15903	"	"	07319003	348 (1260)	
4.	656493	"	18265	"	"	07319004	ND	
5.	6537881	"	ROP 18909	"	"	07319005	269 (1260)	
6.	7841-FD-3	"	18241	"	"	07319006	ND	
7.	656494	"	18242	"	"	07319007	ND	
8.	5360354	"	18233	"	"	07319008	ND	
9.	6524318	"	18240	"	"	07319009	28 (1260)	
10.	287770	"	ROP 18275	"	"	07319010	ND	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers

LABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575

RAVENNA ARSENAL, INC.

P.O. 20899

P.C.B. TESTS

Page 2 of 2.

TIME IN: \_\_\_\_\_

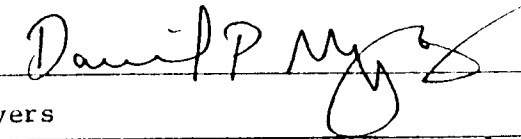
TIME OUT: \_\_\_\_\_

7-31-90  
DATE SAMPLE COLLECTION

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	5360354	011	18264	854	Transformer	07319001	ND	
2.	6648565	"	ROP 18911	"	"	07319002	171 (1260)	↓
3.	6242741	"	ROP 15903	"	"	07319003	348 (1260)	
4.	656493	"	18265	"	"	07319004	ND	
5.	6537881	"	ROP 18909	"	"	07319005	269 (1260)	
6.	7841-FD-3	"	18241	"	"	07319006	ND	
7.	656494	"	18242	"	"	07319007	ND	
8.	5360354	"	18233	"	"	07319008	ND	
9.	6524318	"	18240	"	"	07319009	28 (1260)	
10.	287770	"	ROP 18275	"	"	07319010	ND	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE



TYPED NAME

David P. Myers

TITLE

Laboratory Manager

LABORATORY NAME S. D. Myers

LABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575

RAVENNA ARSENAL, INC.

P.O. 20899

P.C.B. TESTS

Page 2 of 2.

7-31-90  
DATE SAMPLE COLLECTION

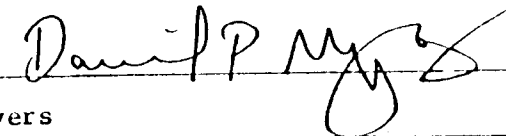
TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	5360354	011	18264	854	Transformer	07319001	ND	
2.	6648565	"	ROP 18911	"	"	07319002	171 (1260)	↓
3.	6242741	"	ROP 15903	"	"	07319003	348 (1260)	
4.	656493	"	18265	"	"	07319004	ND	
5.	6537881	"	ROP 18909	"	"	07319005	269 (1260)	
6.	7841-PD-3	"	18241	"	"	07319006	ND	
7.	656494	"	18242	"	"	07319007	ND	
8.	5360354	"	18233	"	"	07319008	ND	
9.	6524318	"	18240	"	"	07319009	28 (1260)	
10.	287770	"	ROP 18275	"	"	07319010	ND	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE



TYPED NAME

David P. Myers

TITLE

Laboratory Manager

LABORATORY NAME S. D. Myers

LABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575

**IN STORAGE FOR REUSE**

**DATE PLACED IN STORAGE** 7-30-90

**PROPERTY NO.** 18909

**TURN-IN NO.** 07319005

# PCB TEST RESULTS

TEST DATE \_\_\_\_\_ PPM 269

PROPERTY No. 18909

LAB I.D. \_\_\_\_\_

SAMPLE No. \_\_\_\_\_

**IN STORAGE FOR REUSE**

**DATE PLACED IN STORAGE** 7-30-90

**PROPERTY NO.** 15903

**TURN-IN NO.** \_\_\_\_\_

# PCB TEST RESULTS

TEST DATE \_\_\_\_\_ PPM 348

PROPERTY No. 15903

LAB I.D. \_\_\_\_\_

SAMPLE No. 07319003

**IN STORAGE FOR REUSE**

DATE PLACED IN STORAGE 7-30-90

PROPERTY NO. 18911

TURN-IN NO. \_\_\_\_\_



# PCB TEST RESULTS

TEST DATE \_\_\_\_\_ PPM 171

PROPERTY No. 18911

LAB I.D. \_\_\_\_\_

SAMPLE No. 07319002

RAVENNA ARSENAL, INC.

P.O. 20899

P.C.B. TESTS

Page 2 of 2.

7-31-90  
DATE SAMPLE COLLECTED

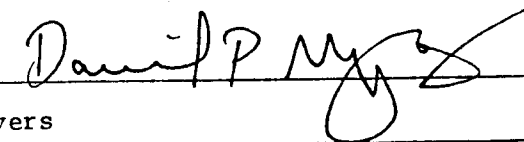
TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	5360354	Oil	18264	854	Transformer	07319001	ND	
2.	6648565	"	ROP 18911	"	"	07319002	171 (1260)	
3.	6242741	"	ROP 15903	"	"	07319003	348 (1260)	
4.	656493	"	18265	"	"	07319004	ND	
5.	6537881	"	ROP 18909	"	"	07319005	269 (1260)	
6.	7841-FD-3	"	18241	"	"	07319006	ND	
7.	656494	"	18242	"	"	07319007	ND	
8.	5360354	"	18233	"	"	07319008	ND	
9.	6524318	"	18240	"	"	07319009	28 (1260)	
10.	287770	"	ROP 18275	"	"	07319010	ND	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers

LABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575

cf. Can Dutton  
to McConnell  
P.O. File

RAVENNA ARSENAL, INC.

P.C.B. TESTS

7-18-90

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	4253528	Oil	No Tag	854	Transformer	07189001	13 (1260)	
2.	4253534	"	No Tag	"	"	07189002	13 (1260)	
3.	4253533	"	No Tag	"	"	07189003	14 (1260)	
4.	6565004	"	18908	"	"	07189004	344 (1260)	
5.	6556698	"	No Tag	"	"	07189005	4 (1260)	
6.	6564989	"	18907	"	"	07189006	158 (1260)	
7.	6565020	"	ROP 18926	"	"	07189007	292 (1260)	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE

*DP Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers

LABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575

RAVENNA ARSENAL, INC.

P.O. 20899

Page 1 of 2.

7-19-90

P.C.B. TESTS

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	3130408	011	ROP 18588	854	Trans	07199001	33 (1254)	

cf: D. Dutton  
A. McConnell  
 P.O. File

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers

LABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575

P C B T E S T S

P.O. 20679

7-11-90

DATE SAMPLE COLLECTION: ✕

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

cf: D. Dutton  
L. McConnell  
P.O. Files

ITEM NO.	SERIAL NO. I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	946632	Oil	18355	854	Transformer	07119001	2 (1260)	
2.	946629	"	18314	"	"	07119002	2 (1260)	
3.	946330	"	18316	"	"	07119003	2 (1260)	
4.	3130412	"	ROP 18916	"	"	07119004	28 (1254)	"masked" ✓
5.	3130417	"	ROP 18 <sup>18600</sup> <sub>650</sub>	"	"	07119005	30 (1254)	"masked" ✓
6.	6284652	"	18923	"	"	07119006	31 (1260)	✓

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE DP Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S. D. Myers  
 LABORATORY ADDRESS P.O. Box 4724 Akron, OH  
44310-0575

## RAVENNA ARSENAL, INC.

## P.C.B. TESTS

7-18-90

DATE SAMPLE COLLECTION

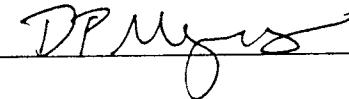
TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
<del>1.</del>	4253528	Oil	No Tag	854	Transformer	07189001	13 (1260)	
<del>2.</del>	4253534	"	No Tag	"	"	07189002	13 (1260)	
<del>3.</del>	4253533	"	No Tag	"	"	07189003	14 (1260)	
4.	6565004	"	18908	"	"	07189004	344 (1260)	
<del>5.</del>	6556698	"	No Tag	"	"	07189005	4 (1260)	
6.	6564989	"	18907	"	"	07189006	158 (1260)	
7.	6565020	"	ROP 18926	"	"	07189007	292 (1260)	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE

TYPED NAME David P. MyersTITLE Laboratory ManagerLABORATORY NAME S. D. MyersLABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575

cf: D. Dutton  
 E. McConnell  
 P.O. file

RAVENNA ARSENAL, INC.

P.C.B. TESTS

7-18-90

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	4253528	Oil	No Tag	854	Transformer	07189001	13 (1260)	
2.	4253534	"	No Tag	"	"	07189002	13 (1260)	
3.	4253533	"	No Tag	"	"	07189003	14 (1260)	
4.	6565004	"	18908	"	"	07189004	344 (1260)	
5.	6556698	"	No Tag	"	"	07189005	4 (1260)	
6.	6564989	"	18907	"	"	07189006	158 (1260)	
7.	6565020	"	ROP 18926	"	"	07189007	292 (1260)	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE DP Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S. D. Myers  
 LABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575

cf. B. Dutton  
E. McConnell  
P.O. File

## RAVENNA ARSENAL, INC.

## P.C.B. TESTS

7-18-90

TIME IN: \_\_\_\_\_

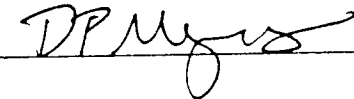
DATE SAMPLE COLLECTION

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	4253528	Oil	No Tag	854	Transformer	07189001	13 (1260)	
2.	4253534	"	No Tag	"	"	07189002	13 (1260)	
3.	4253533	"	No Tag	"	"	07189003	14 (1260)	
4.	6565004	"	18908	"	"	07189004	344 (1260)	
5.	6556698	"	No Tag	"	"	07189005	4 (1260)	
6.	6564989	"	18907	"	"	07189006	158 (1260)	
7.	6565020	"	ROP 18926	"	"	07189007	292 (1260)	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE

TYPED NAME David P. MyersTITLE Laboratory ManagerLABORATORY NAME S. D. MyersLABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575



*McCormell*  
P.O. file

RAVENNA ARSENAL, INC.

P.C.B. TESTS

7-18-90

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	4253528	011	No Tag	854	Transformer	07189001	13 (1260)	
2.	4253534	"	No Tag	"	"	07189002	13 (1260)	
3.	4253533	"	No Tag	"	"	07189003	14 (1260)	
4.	6565004	"	18908	"	"	07189004	344 (1260)	
5.	6556698	"	No Tag	"	"	07189005	4 (1260)	
6.	6564989	"	18907	"	"	07189006	158 (1260)	
7.	<del>6555020</del>	"	<del>ROP 18926</del>	"	"	07189007	292 (1260)	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE *DP Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers

LABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575

cf 15 Patton  
McConnell  
PO file

RAVENHIA ARSENAL, INC.

P.C.B. TESTS

7-18-90

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	4253528	011	No Tag	854	Transformer	07189001	13 (1260)	
2.	4253534	"	No Tag	"	"	07189002	13 (1260)	
3.	4253533	"	No Tag	"	"	07189003	14 (1260)	
4.	6565004	"	18908	"	"	07189004	344 (1260)	
5.	6556698	"	No Tag	"	"	07189005	4 (1260)	
6.	<del>6565004</del>	"	18907	"	"	07189006	158 (1260)	
7.	6565020	"	ROP 18926	"	"	07189007	292 (1260)	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSIS AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE DP Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers

LABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575

RAVENHIA ARSENAL, INC.

7-18-90

P.C.B. TESTS

DATE SAMPLE COLLECTION

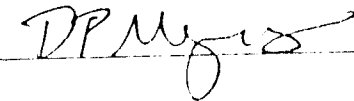
TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	4253528	011	No Tag	854	Transformer	07189001	13 (1260)	
2.	4253534	"	No Tag	"	"	07189002	13 (1260)	
3.	4253533	"	No Tag	"	"	07189003	14 (1260)	
4.	<del>654984</del>	"	18908	"	"	07189004	344 (1260)	
5.	6556698	"	No Tag	"	"	07189005	4 (1260)	
6.	6564989	"	18907	"	"	07189006	158 (1260)	
7.	6565020	"	ROP 18926	"	"	07189007	292 (1260)	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE


TYPED NAME David P. MyersTITLE Laboratory ManagerLABORATORY NAME S. D. MyersLABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575

RAVENNA ARSENAL, INC.

P.C.B. TESTS

7-18-90

DATE SAMPLE COLLECTION

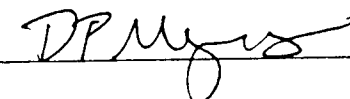
TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	4253528	011	No Tag	854	Transformer	07189001	13 (1260)	
2.	4253534	"	No Tag	"	"	07189002	13 (1260)	
3.	4253533	"	No Tag	"	"	07189003	14 (1260)	
4.	6565004	"	18908	"	"	07189004	344 (1260)	
5.	6556698	"	No Tag	"	"	07189005	4 (1260)	
6.	6564989	"	18907	"	"	07189006	158 (1260)	
7.	6565020	"	ROP 18926	"	"	07189007	292 (1260)	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE


TYPED NAME David P. MyersTITLE Laboratory ManagerLABORATORY NAME S. D. MyersLABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

P C B T E S T S

P.O. 20422

5-10-90  
DATE SAMPLE COLLECTION

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	290281	Oil	POD 2621	854	Transformer	05109001	ND	
2.	3103965	"	POD 2607	854	"	05109002	10 @ 1260	
3.	3103964	"	POD 2608	854	"	05109003	10 @ 1260	
4.	367834	"	ROP 15899	854	"	05109004	ND	
5.	3103963	"	POD 2609	854	"	05109005	17 @ 1260	
6.	303727	"	2045	854	"	05109006	ND	
7.	3918	"	POD 2665	854	"	05109007	ND	
8.	287073	"	ROP 6762	854	"	05109008	ND	
9.	285304	"	ROP 18448	854	"	05109009	ND	
10.	367830	"	ROP 15901	854	"	05109010	ND	
11.	6537966	"	ROP 18910	854	"	05109011	194 @ 1260	
12.	2605956	"	ROP 18547	854	"	05109012	8 @ 1260	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 161.10(g)

RECEIVED  
MAINTENANCE DEPT.

JUN - 8 1990

AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

44278

P C B T E S T S

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	40705 C	Oil	None	854	Transformer	03309001	ND	
2.	40705-A	Oil	None	854	"	03309002	ND	
3.	40705-B	Oil	None	854	"	03309003	ND	
4.	6808941	Oil	18489 ✓	854	"	03309004	368 @ 1260	
5.	6578932	Oil	18484 ✓	854	"	03309005	68 @ 1260	
6.	250065	Oil	POD 2617 ✓	854	"	03309006	ND	
7.	267212	Oil	POD 2616 ✓	854	"	03309007	ND	
8.	3914	Oil	POD 2642 ✓	854	"	03309009	ND	
9.	6545836	Oil	POD 2651 ✓	854	"	03309010	164 @ 1260	
10.	250067	Oil	POD 2618 ✓	854	"	03309011	ND	
11.	6578959	Oil	18471 ✓	854	"	03309012	69 @ 1260	
12.	3130149	Oil	18469 ✓	854	"	03309013	58 @ 1260	

Detection limit is 2 ppm.

ND = None Detected

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE  
**RECEIVED** THE RESULT OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE  
 WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).  
 MAINTENANCE T.

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S. D. Myers, Inc.  
 LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

APR 23 1990  
 AM \_\_\_\_\_ PM \_\_\_\_\_  
 7 8 9 10 11 12 1 2 3 4 5 6

P C B T E S T S

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	40705 C	Oil	None	854	Transformer	03309001	ND	
2.	40705-A	Oil	None	854	"	03309002	ND	
3.	40705-B	Oil	None	854	"	03309003	ND	
4.	6808941	Oil	18489 ✓	854	"	03309004	368 @ 1260	
5.	6578932	Oil	18484 ✓	854	"	03309005	68 @ 1260	
6.	250065	Oil	POD 2617 ✓	854	"	03309006	ND	
7.	267212	Oil	POD 2616 ✓	854	"	03309007	ND	
8.	3914	Oil	POD 2642 ✓	854	"	03309009	ND	
9.	6545836	Oil	POD 2651 ✓	854	"	03309010	164 @ 1260	
10.	250067	Oil	POD 2618 ✓	854	"	03309011	ND	
11.	6578959	Oil	18471 ✓	854	"	03309012	69 @ 1260	
12.	3130149	Oil	18469 ✓	854	"	03309013	58 @ 1260	

Detection limit is 2 ppm.

ND = None Detected

**RECEIVED**  
 I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE THE RESULT OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).  
 MAINTENANCE T.

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, O

23 1990  
 AM PM  
 7 8 9 10 11 12 1 2 3 4 5 6

P C B T E S T S

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	40705 C	Oil	None	854	Transformer	03309001	ND	
2.	40705-A	Oil	None	854	"	03309002	ND	
3.	40705-B	Oil	None	854	"	03309003	ND	
4.	6808941	Oil	18489 ✓	854	"	03309004	368 @ 1260	
5.	6578932	Oil	18484 ✓	854	"	03309005	68 @ 1260	
6.	250065	Oil	POD 2617 ✓	854	"	03309006	ND	
7.	267212	Oil	POD 2616 ✓	854	"	03309007	ND	
8.	3914	Oil	POD 2642 ✓	854	"	03309009	ND	
9.	6545836	Oil	POD 2651 ✓	854	"	03309010	164 @ 1260	
10.	250067	Oil	POD 2618 ✓	854	"	03309011	ND	
11.	6578959	Oil	18471 ✓	854	"	03309012	69 @ 1260	
12.	3130149	Oil	18469 ✓	854	"	03309013	58 @ 1260	

Detection limit is 2 ppm.

ND = None Detected

**RECEIVED**  
 I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE  
 TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE  
 WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).  
 MAINTENANCE T.

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

44278

APR 23 1990  
 AM \_\_\_\_\_ PM \_\_\_\_\_  
 7,8,9,10,11,12,1,2,3,4,5,6



P C B T E S T S

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	40705 C	011	None	854	Transformer	03309001	ND	
2.	40705-A	011	None	854	"	03309002	ND	
3.	40705-B	011	None	854	"	03309003	ND	
4.	6808941	011	18489 ✓	854	"	03309004	368 @ 1260	
5.	6578932	011	18484 ✓	854	"	03309005	68 @ 1260	
6.	250065	011	POD 2617 ✓	854	"	03309006	ND	
7.	267212	011	POD 2616 ✓	854	"	03309007	ND	
8.	3914	011	POD 2642 ✓	854	"	03309009	ND	
9.	6545836	011	POD 2651 ✓	854	"	03309010	164 @ 1260	
10.	250067	011	POD 2618 ✓	854	"	03309011	ND	
11.	6578959	011	18471 ✓	854	"	03309012	69 @ 1260	
12.	3130149	011	18469 ✓	854	"	03309013	58 @ 1260	

Detection limit is 2 ppm.

ND = None Detected

AUTHORIZED SIGNATURE

*David P. Myers*TYPED NAME David P. MyersTITLE Laboratory ManagerLABORATORY NAME S. D. Myers, Inc.LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

44278

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE  
 FROM RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE  
 WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

**RECEIVED**  
**MAINTENANCE**

APR 23 1990

AM PM  
 7,8,9,10,11,12,1,2,3,4,5,6

P C B T E S T S

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	40705 C	011	None	854	Transformer	03309001	ND	
2.	40705-A	011	None	854	"	03309002	ND	
3.	40705-B	011	None	854	"	03309003	ND	
4.	6808941	011	18489 ✓	854	"	03309004	368 @ 1260	
5.	6578932	011	18484 ✓	854	"	03309005	68 @ 1260	
6.	250065	011	POD 2617 ✓	854	"	03309006	ND	
7.	267212	011	POD 2616 ✓	854	"	03309007	ND	
8.	3914	011	POD 2642 ✓	854	"	03309009	ND	
9.	6545836	011	POD 2651 ✓	854	"	03309010	164 @ 1260	
10.	250067	011	POD 2618 ✓	854	"	03309011	ND	
11.	6578959	011	18471 ✓	854	"	03309012	69 @ 1260	
12.	3130149	011	18469 ✓	854	"	03309013	58 @ 1260	

Detection limit is 2 ppm.

ND = None Detected

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE  
**RECEIVED** FROM RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE  
 WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):  
 MAINTENANCE T.

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, O

44278

APR 23 1990  
 AM PM  
 7 8 9 10 11 12 1 2 3 4 5 6

3-30-90

P C B T E S T S

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

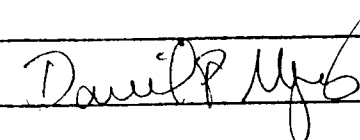
ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	40705 C	Oil	None	854	Transformer	03309001	ND	
2.	40705-A	Oil	None	854	"	03309002	ND	
3.	40705-B	Oil	None	854	"	03309003	ND	
4.	6808941	Oil	18489 ✓	854	"	03309004	368 @ 1260	
5.	6578932	Oil	18484 ✓	854	"	03309005	68 @ 1260	
6.	250065	Oil	POD 2617	854	"	03309006	ND	
7.	267212	Oil	POD 2616	854	"	03309007	ND	
8.	3914	Oil	POD 2642	854	"	03309009	ND	
9.	6545836	Oil	POD 2651	854	"	03309010	164 @ 1260	
10.	250067	Oil	POD 2618	854	"	03309011	ND	
11.	6578959	Oil	18471	854	"	03309012	69 @ 1260	
12.	3130149	Oil	18469 ✓	854	"	03309013	58 @ 1260	

Detection limit is 2 ppm.

ND = None Detected

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE  
 THE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE  
 WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):  
 MAINTENANCE T.

AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

44278

APR 23 1990  
 AM PM  
 7,8,9,10,11,12,1,2,3,4,5,6

P C B T E S T S

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	40705 C	011	None	854	Transformer	03309001	ND	
2.	40705-A	011	None	854	"	03309002	ND	
3.	40705-B	011	None	854	"	03309003	ND	
4.	6808941	011	18489	854	"	03309004	368 @ 1260	
5.	6578932	011	18484	854	"	03309005	68 @ 1260	
6.	250065	011	POD 2617	854	"	03309006	ND	
7.	267212	011	POD 2616	854	"	03309007	ND	
8.	3914	011	POD 2642	854	"	03309009	ND	
9.	6545836	011	POD 2651	854	"	03309010	164 @ 1260	
10.	250067	011	POD 2618	854	"	03309011	ND	
11.	6578959	011	18471	854	"	03309012	69 @ 1260	
12.	3130149	011	18469	854	"	03309013	58 @ 1260	

Detection limit is 2 ppm.

ND = None Detected

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE  
**RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE**  
**WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):**  
**MAINTENANCE T.**

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

44278

APR 23 1990  
 AM \_\_\_\_\_ PM \_\_\_\_\_  
 7,8,9,10,11,12,1,2,3,4,5,6

P C B T E S T S

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	40705 C	011	None	854	Transformer	03309001	ND	
2.	40705-A	011	None	854	"	03309002	ND	
3.	40705-B	011	None	854	"	03309003	ND	
4.	6808941	011	18489 ✓	854	"	03309004	368 @ 1260	
5.	6578932	011	18484 ✓	854	"	03309005	68 @ 1260	
6.	250065	011	POD 2617 ✓	854	"	03309006	ND	
7.	267212	011	POD 2616 ✓	854	"	03309007	ND	
8.	3914	011	POD 2642 ✓	854	"	03309009	ND	
9.	6545836	011	POD 2651 ✓	854	"	03309010	164 @ 1260	
10.	250067	011	POD 2618 ✓	854	"	03309011	ND	
11.	6578959	011	18471 ✓	854	"	03309012	69 @ 1260	
12.	3130149	011	18469 ✓	854	"	03309013	58 @ 1260	

Detection limit is 2 ppm.

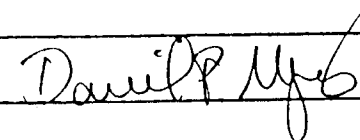
ND = None Detected

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE  
**RECEIVED** TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE  
 WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):  
 MAINTENANCE T.

APR 23 1990

AM 7,8,9,10,11,12,1,2,3,4,5,6 PM

AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, O

44278

P C B T E S T S

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	40705 C	Oil	None	854	Transformer	03309001	ND	
2.	40705-A	Oil	None	854	"	03309002	ND	
3.	40705-B	Oil	None	854	"	03309003	ND	
4.	6808941	Oil	18489 ✓	854	"	03309004	368 @ 1260	
5.	6578932	Oil	18484 ✓	854	"	03309005	68 @ 1260	
6.	250065	Oil	POD 2617 ✓	854	"	03309006	ND	
7.	267212	Oil	POD 2616 ✓	854	"	03309007	ND	
8.	3914	Oil	POD 2642 ✓	854	"	03309009	ND	
9.	6545836	Oil	POD 2651 ✓	854	"	03309010	164 @ 1260	
10.	250067	Oil	POD 2618 ✓	854	"	03309011	ND	
11.	6578959	Oil	18471 ✓	854	"	03309012	69 @ 1260	
12.	3130149	Oil	18469 ✓	854	"	03309013	58 @ 1260	

Detection limit is 2 ppm.

ND = None Detected

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE  
**RECEIVED** FROM RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE  
 WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).  
**MAINTENANCE** T.

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S. D. Myers, Inc.  
 LABORATORY ADDRESS 180 South Ave., Tallmadge, O

APR 23 1990  
 AM \_\_\_\_\_ PM \_\_\_\_\_  
 7,8,9,10,11,12,1,2,3,4,5,6

P C B T E S T S

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	40705 C	011	None	854	Transformer	03309001	ND	
2.	40705-A	011	None	854	"	03309002	ND	
3.	40705-B	011	None	854	"	03309003	ND	
4.	6808941	011	18489	854	"	03309004	368 @ 1260	
5.	6578932	011	18484	854	"	03309005	68 @ 1260	
6.	250065	011	POD 2617	854	"	03309006	ND	
7.	267212	011	POD 2616	854	"	03309007	ND	
8.	3914	011	POD 2642	854	"	03309009	ND	
9.	6545836	011	POD 2651	854	"	03309010	164 @ 1260	
10.	250067	011	POD 2618	854	"	03309011	ND	
11.	6578959	011	18471	854	"	03309012	69 @ 1260	
12.	3130149	011	18469	854	"	03309013	58 @ 1260	

Detection limit is 2 ppm.

ND = None Detected

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE  
**RECEIVED** FROM THE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE  
 WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):  
**MAINTENANCE** T.

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S. D. Myers, Inc.  
 LABORATORY ADDRESS 180 South Ave., Tallmadge, OH  
44278

23 1990  
 AM PM  
 7,8,9,10,11,12,1,2,3,4,5,6

P C B T E S T S

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	40705 C	011	None	854	Transformer	03309001	ND	
2.	40705-A	011	None	854	"	03309002	ND	
3.	40705-B	011	None	854	"	03309003	ND	
4.	6808941	011	18489 ✓	854	"	03309004	368 @ 1260	
5.	6578932	011	18484 ✓	854	"	03309005	68 @ 1260	
6.	250065	011	POD 2617 ✓	854	"	03309006	ND	
7.	267212	011	POD 2616 ✓	854	"	03309007	ND	
8.	3914	011	POD 2642 ✓	854	"	03309009	ND	
9.	6545836	011	POD 2651 ✓	854	"	03309010	164 @ 1260	
10.	250067	011	POD 2618 ✓	854	"	03309011	ND	
11.	6578959	011	18471 ✓	854	"	03309012	69 @ 1260	
12.	3130149	011	18469 ✓	854	"	03309013	58 @ 1260	

Detection limit is 2 ppm.

ND = None Detected

**RECEIVED**  
 I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE  
 THE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE  
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 MAINTENANCE T.

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, O

APR 23 1990  
 AM PM  
 7,8,9,10,11,12,1,2,3,4,5,6



TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

P C B T E S T S

20049

03-23-90

DATE SAMPLE COLLECTION

<u>ITEM NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
1.	3089979	011	18411	854	Transformer	03239001	29 @ 1254	
2.	3089978	011	18413	854	"	03239002	36 @ 1254	
<del>3.</del>	3089372	011	18410	854	"	03239003	23 @ 1254	
4.	12776	011	18409	854	"	03239004	ND	
5.	3089983	011	18406	854	"	03239005	28 @ 1254	
6.	6956873	011	ROP-15905 ✓	854	"	03239006	381 @ 1260	
7.	3089982	011	18344	854	"	03239007	37 @ 1254	
8.	3091044	011	18408	854	"	03239008	5 @ 1260	
9.	3089375	011	18348	854	"	03239009	11 @ 1254	
10.	3091043	011	18349	854	"	03239010	15 @ 1260	
<del>11.</del>	3089980	011	18346	854	"	03239011	28 @ 1254	
12.	12777	011	18350	854	"	03239012	ND	
13.	3130703	011	18452	854	"	03239013	21 @ 1260	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE

*David P. Myers*

TYPED NAME

David P. Myers

TITLE

Laboratory Manager

LABORATORY NAME

S. D. Myers, Inc.

LABORATORY ADDRESS

180 South Ave., Tallmadge, OH

P.O. 20049

## P C B T E S T S

20049

03-23-90

TIME IN: \_\_\_\_\_

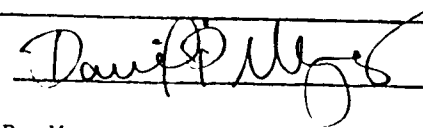
TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION,

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	3089979	011	18411	854	Transformer	03239001	29 @ 1254	
2.	3089978	011	18413	854	"	03239002	36 @ 1254	
3.	3089372	011	18410	854	"	03239003	23 @ 1254	
4.	12776	011	18409	854	"	03239004	ND	
5.	3089983	011	18406	854	"	03239005	28 @ 1254	
6.	6956873	011	ROP-15905 ✓	854	"	03239006	381 @ 1260	
7.	3089982	011	18344	854	"	03239007	37 @ 1254	
8.	3091044	011	18408	854	"	03239008	5 @ 1260	
9.	3089375	011	18348	854	"	03239009	11 @ 1254	
10.	3091043	011	18349	854	"	03239010	15 @ 1260	
11.	3089980	011	18346	854	"	03239011	28 @ 1254	
12.	12777	011	18350	854	"	03239012	ND	
13.	3130703	011	18452	854	"	03239013	21 @ 1260	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

44278

P.O. 20049

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

P C B T E S T S

20049

03-23-90  
DATE SAMPLE COLLECTION,  
PCB  
CONC.  
(PPM) · REMARKS

<u>ITEM /</u> <u>ITEM NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (PPM)</u>	<u>REMARKS</u>
1.	3089979	011	18411	854	Transformer	03239001	29 @ 1254	
2.	3089978	011	18413	854	"	03239002	36 @ 1254	
3.	3089372	011	18410	854	"	03239003	23 @ 1254	
4.	12776	011	18409	854	"	03239004	ND	
5.	3089983	011	18406	854	"	03239005	28 @ 1254	
6.	6956873	011	ROP-15905 ✓	854	"	03239006	381 @ 1260	
7.	3089982	011	18344	854	"	03239007	37 @ 1254	
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TYPED NAME David P. Myers  
TITLE Laboratory Manager  
LABORATORY NAME S. D. Myers, Inc.  
LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

P.O. 20049

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

P C B T E S T S

20049

03-23-90

DATE SAMPLE COLLECTION

<u>ITEM NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
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PCB  
CONC.  
(ppm)

REMARKS

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David P. Myers

TITLE

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LABORATORY NAME

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LABORATORY ADDRESS

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PO. 20049

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TIME OUT: \_\_\_\_\_

P C B T E S T S

20049

03-23-90

DATE SAMPLE COLLECTION

PCB  
CONC.  
(ppm)

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P C B T E S T S

20049

03-23-90

DATE SAMPLE COLLECTION,

PCB  
CONC.  
(ppm)

REMARKS

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CONC.  
(ppm)

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PCB  
CONC.  
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PCB  
CONC.  
(ppm)

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## P C B T E S T S

20049

03-23-90

TIME IN: \_\_\_\_\_

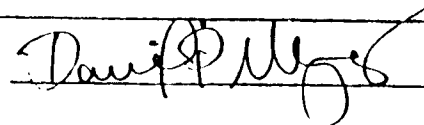
TIME OUT: \_\_\_\_\_

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TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

NO. 20049

R A V E N N A   A R S E N A L ,   I N C .

7/26/93

27754   BATCH #7

DATE SAMPLE COLLECTED

PURCHASE ORDER NUMBER

P C B   T E S T S

*Ted R Cobb*  
SAMPLE COLLECTED BY TED COBB

	PLANT NO.	SERIAL NO.	ITEM	BLDG. LOC.	FLUID	LAB ID NO.	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
1.	18599	3130413	TRANSFORMER	854	OIL	07269301	39@ 1254	2PPM	
2.	ROP-18419	944324	"	"	"	07269302	ND		
3.	ROP-18433	6363522	"	"	"	07269303	2 @1260	2PPM	
4.	POD-2613	3925	"	"	"	07269304	ND		
5.	POD-2627	303769	"	"	"	07269305	ND		
6.	POD-2615	295538	"	"	"	07269306	ND		
7.	POD-2638	3915	"	"	"	07269307	ND		
8.	POD-2614	293910	"	"	"	07269308	ND		
9.	POD-2047	2023338	"	"	"	07269309	48 @1248	2PPM	
10.	POD-2659	3146354	"	"	"	07269310	17 @1260	2PPM	
11.	NONE	P588100-YOD	"	"	"	07269311	ND		
12.	22383	709728	"	"	"	07269312	3 @1260	2PPM	
13.	22384	709729	"	"	"	07269313	3 @1260	2PPM	
14.									
15.									
16.									
17.									
18.									

ORIG: D. E. JURA  
CC: PURCHASING  
T. T. SCOTT  
J. F. FULTZ  
L. J. LAVIN  
T. M. CHANDA  
J. D. MCGEE

HISTORICAL RECORD FILE OF EACH TX.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH GAS CHROMATOGRAPHY METHODS PRESCRIBED IN ASTM D-40-59 OR EPA SW846 METHOD 8080.

AUTHORIZED SIGNATURE *Randy Stebbins*  
TYPED NAME Randy Stebbins  
TITLE Lab Manager  
LABORATORY NAME S.D. Myers  
DATE LAB RECEIVED SAMPLE 7/28/93  
DATE REPORTED 8/4/93

RAVENNA ARSENAL, INC.

JULY 15, 1993

27754 (BATCH #6) PAGE 1 OF 2.  
PURCHASE ORDER NUMBER

PCB TESTS

DATE SAMPLE COLLECTED

Ted R Cobb  
SAMPLE COLLECTED BY T. COBB

	PLANT NO.	SERIAL NO.	ITEM	BLDG. LOC.	FLUID	LAB ID NO.	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
1.	18548	944289	TRANSFORMER	854	OIL	07159301	ND		
2.	18549	944293	"	"	"	07159302	ND		
3.	18550	944294	"	"	"	07159303	ND		
4.	ROP-18356	946633	"	"	"	07159304	ND		
5.	NONE	K211291Y71AA	"	"	"	07159305	ND		
6.	18525	6586664	"	"	"	07159306	146 @1260	2PPM	
7.	NONE	J789542K71AA	"	"	"	07159307	ND		
8.	NONE	J789546K71AA	"	"	"	07159308	ND		
9.	ROP-15811	301893	"	"	"	07159309	ND		
10.	18421	944328	"	"	"	07159310	ND		
11.	18526	6586653	"	"	"	07159311	195 @1260	2PPM	
12.	18914	6585437	"	"	"	07159312	226 @1260	2PPM	
13.	18913	6587367	"	"	"	07159313	57 @1260	2PPM	
14.	ROP-18495	6577904	"	"	"	07159314	40 @1260	2PPM	
15.	18533	5367317	"	"	"	07159315	ND		
16.	18532	6717020	"	"	"	07159316	70 @1260	2PPM	
17.	18516	6717023	"	"	"	07159317	75 @1260	2PPM	
18.	18912	6587358	"	"	"	07159318	49 @1260	2PPM	

ORIG: D. E. JURA  
CC: PURCHASING  
T. T. SCOTT  
J. F. FULTZ  
L. J. LAVIN  
T. M. CHANDA  
J. D. MCGEE  
HISTORICAL RECORD FILE OF EACH TX.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH GAS CHROMATOGRAPHY METHODS PRESCRIBED IN ASTM D-40-59 OR EPA SW846 METHOD 8080.

AUTHORIZED SIGNATURE Randy D. Stebbins  
TYPED NAME Randy Stebbins  
TITLE Lab Manager  
LABORATORY NAME S. D. Myers  
DATE LAB RECEIVED SAMPLE 7/23/93  
DATE REPORTED 8/4/93

JULY 15, 1993

27754 (BATCH #6) PAGE 2 OF 2.

PCB TESTS

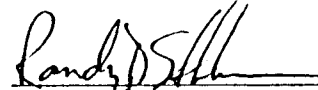
DATE SAMPLE COLLECTED

PURCHASE ORDER NUMBER

Ted R. Cobb  
SAMPLE COLLECTED BY TED COBB

	PLANT NO.	SERIAL NO.	ITEM	BLDG. LOC.	FLUID	LAB ID NO.	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
1.	18946	2983375	TRANSFORMER	854	OIL	07159319	63 @1260	2PPM	
2.	18977	NONE	OCB	"	"	07159320	ND		
3.									
4.									
5.									
6.									
7.									
8.									
9.									
10.									
11.									
12.									
13.									
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16.									
17.									
18.									

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH GAS CHROMATOGRAPHY METHODS PRESCRIBED IN ASTM D-40-59 OR EPA SW846 METHOD 8080.

AUTHORIZED SIGNATURE   
 TYPED NAME Randy Stebbins  
 TITLE Lab Manager  
 LABORATORY NAME S.D. Myers  
 DATE LAB RECEIVED SAMPLE 7/23/93  
 DATE REPORTED 8/4/93



RAVENNA ARSENAL, INC.

6/22/93 & 6/23/93  
DATE SAMPLE COLLECTED

27760

PURCHASE ORDER NUMBER

PCB TESTS

*Jack Fultz E. Rahne*  
SAMPLE COLLECTED BY E. RAHNE & J. FULTZ

	PLANT NO.	SERIAL NO.	ITEM	BLDG. LOC.	FLUID	LAB ID NO.	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
1.	ROP-18516	6586610	TRANSFORMER	1035	OIL	06229301	65 @ 1260		
2.	ROP-18517	6585442	"	1035	"	06229302	132 @ 1260		
3.	ROP-18543	6586667	"	1035	"	06229303	82 @ 1260		
4.	NONE	J553614Y704	"	1037	"	06229304	ND	2 ppm	
5.	NONE	J553610Y704	"	1037	"	06229305	ND	2 ppm	
6.	ROP-18430	291361	"	LL#12	"	06229306	ND	2 ppm	
7.	ROP-18510	6694976	"	1034	"	06229307	184 @ 1260		
8.	ROP-18511	6575998	"	1034	"	06229308	167 @ 1260		
9.	ROP-18514	6575948	"	1034	"	06229309	ND	2 ppm	
10.	NONE	3631-69	"	1038/P1	"	06239301	5 @ 1254		
11.	NONE	3632-69	"	1038/P1	"	06239302	10 @ 1254		
12.	NONE	3633-69	"	1038/P1	"	06239303	8 @ 1254		
13.									
14.									
15.									
16.									
17.									
18.									

ORIG: D. E. JURA  
PURCHASING  
CC: T. T. SCOTT  
J. F. FULTZ  
L. J. LAVIN  
T. M. CHANDA  
J. D. MCGEE

I CERTIFY  
OF LABORATORY  
METHODS PRESCRIBED IN ASTM D-40-59 OR EPA SW846 METHOD 8080.

HISTORICAL RECORD FILE OF EACH TX.  
AS SHOWN ABOVE ARE TRUE RESULTS  
DETERMINED IN ACCORDANCE WITH GAS CHROMATOGRAPHY

AUTHORIZED SIGNATURE *John R. Sans*  
TYPED NAME John R. Sans  
TITLE Laboratory Supervisor  
LABORATORY NAME S. D. Myers, Inc.  
DATE LAB RECEIVED SAMPLE 6/30/93  
DATE REPORTED 7/8/93

*Ted Cobb*

SAMPLE COLLECTED BY TED COBB

	PLANT NO.	SERIAL NO.	ITEM	BLDG. LOC.	FLUID	LAB ID NO.	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
1.	ROP-18445	946603	TRANSFORMER	854	OIL	06219301	ND	2 ppm	
2.	ROP-18467	2983374	"	"	"	06219302	60 @ 1260		
3.	ROP-18446	947010	"	"	"	06219303	5 @ 1254		
4.	NONE	742027840	"	"	"	06219304	ND	2 ppm	
5.	NONE (WBPS)	TD-00026	"	"	"	06219305	ND	2 ppm	
6.	NONE	D-4989-5	"	"	"	06219306	10 @ 1260		
7.	POD-2620	290282	"	"	"	06219307	ND	2 ppm	
8.	POD-2612	297835	"	"	"	06219308	ND	2 ppm	
9.	POD-2648	286821	"	"	"	06219309	ND	2 ppm	
10.	POD-2611	297830	"	"	"	06219310	ND	2 ppm	
11.	POD-2661	291093	"	"	"	06219311	ND	2 ppm	
12.	POD-2051	299710	"	"	"	06219312	ND	2 ppm	
13.	ROP-18466	2983369	"	"	"	06219313	59 @ 1260		
14.	ROP-18468	286093	"	"	"	06219314	ND	2 ppm	
15.	ROP-18578	3112486	"	"	"	06219315	32 @ 1260		
16.	POD-2610	297837	"	"	"	06219316	ND	2 ppm	
17.	NONE	732N052001	"	"	"	06219317	ND	2 ppm	
18.									

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH GAS CHROMATOGRAPHY METHODS PRESCRIBED IN ASTM D-40-59 OR EPA SW846 METHOD 8080.

AUTHORIZED SIGNATURE

*John R. Sans*

TYPED NAME

John R. Sans

TITLE

Laboratory Supervisor

LABORATORY NAME

S. D. Myers, Inc.

DATE LAB RECEIVED SAMPLE

6-25-93

DATE REPORTED

6-30-93

6/21/93

27754 (BATCH #4)

DATE SAMPLE COLLECTED

P C B T E S T S

PURCHASE ORDER NUMBER

*Ted Cobb*  
SAMPLE COLLECTED BY TED COBB

	PLANT NO.	SERIAL NO.	ITEM	BLDG. LOC.	FLUID	LAB ID NO.	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
<del>1.</del>	ROP-18445	946603	TRANSFORMER	854	OIL	06219301	ND	2 ppm	
<del>2.</del>	ROP-18467	2983374	"	"	"	06219302	60 @ 1260		
<del>3.</del>	ROP-18446	947010	"	"	"	06219303	5 @ 1254		
<del>4.</del>	NONE	742027840	"	"	"	06219304	ND	2 ppm	
<del>5.</del>	NONE (WBPS)	TD-00026	"	"	"	06219305	ND	2 ppm	
<del>6.</del>	NONE	D-4989-5	"	"	"	06219306	10 @ 1260		
<del>7.</del>	POD-2620	290282	"	"	"	06219307	ND	2 ppm	
<del>8.</del>	POD-2612	297835	"	"	"	06219308	ND	2 ppm	
<del>9.</del>	POD-2648	286821	"	"	"	06219309	ND	2 ppm	
<del>10.</del>	POD-2611	297830	"	"	"	06219310	ND	2 ppm	
<del>11.</del>	POD-2661	291093	"	"	"	06219311	ND	2 ppm	
<del>12.</del>	POD-2051	299710	"	"	"	06219312	ND	2 ppm	
<del>13.</del>	ROP-18466	2983369	"	"	"	06219313	59 @ 1260		
<del>14.</del>	ROP-18468	286093	"	"	"	06219314	ND	2 ppm	
<del>15.</del>	ROP-18578	3112486	"	"	"	06219315	32 @ 1260		
<del>16.</del>	POD-2610	297837	"	"	"	06219316	ND	2 ppm	
17.	NONE	73ZN052001	"	"	"	06219317	ND	2 ppm	
18.									

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS  
OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH GAS CHROMATOGRAPHY  
METHODS PRESCRIBED IN ASTM D-40-59 OR EPA SW846 METHOD 8080.

AUTHORIZED SIGNATURE

TYPED NAME

TITLE

LABORATORY NAME

DATE LAB RECEIVED SAMPLE

DATE REPORTED

*John R. Sans*

John R. Sans

Laboratory Supervisor

S. D. Myers, Inc.

6-25-93

6-30-93

27754 (BATCH #4)

PCB TESTS

DATE SAMPLE COLLECTED

PURCHASE ORDER NUMBER

*Ted Cobb*  
SAMPLE COLLECTED BY TED COBB

	PLANT NO.	SERIAL NO.	ITEM	BLDG. LOC.	FLUID	LAB ID NO.	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
1.	ROP-18445	946603	TRANSFORMER	854	OIL	06219301	ND	2 ppm	
2.	ROP-18467	2983374	"	"	"	06219302	60 @ 1260		
3.	ROP-18446	947010	"	"	"	06219303	5 @ 1254		
4.	NONE	742027840	"	"	"	06219304	ND	2 ppm	
5.	NONE(WBPS)	TD-00026	"	"	"	06219305	ND	2 ppm	
6.	NONE	D-4989-5	"	"	"	06219306	10 @ 1260		
7.	POD-2620	290282	"	"	"	06219307	ND	2 ppm	
8.	POD-2612	297835	"	"	"	06219308	ND	2 ppm	
9.	POD-2648	286821	"	"	"	06219309	ND	2 ppm	
10.	POD-2611	297830	"	"	"	06219310	ND	2 ppm	
11.	POD-2661	291093	"	"	"	06219311	ND	2 ppm	
12.	POD-2051	299710	"	"	"	06219312	ND	2 ppm	
13.	ROP-18466	2983369	"	"	"	06219313	59 @ 1260		
14.	ROP-18468	286093	"	"	"	06219314	ND	2 ppm	
15.	ROP-18578	3112486	"	"	"	06219315	32 @ 1260		
16.	POD-2610	297837	"	"	"	06219316	ND	2 ppm	
17.	NONE	73ZN052001	"	"	"	06219317	ND	2 ppm	
18.									

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH GAS CHROMATOGRAPHY METHODS PRESCRIBED IN ASTM D-40-59 OR EPA SW846 METHOD 8080.

AUTHORIZED SIGNATURE *John R Sans*  
 TYPED NAME John R. Sans  
 TITLE Laboratory Supervisor  
 LABORATORY NAME S. D. Myers, Inc.  
 DATE LAB RECEIVED SAMPLE 6-25-93  
 DATE REPORTED 6-30-93

27754 (BATCH #4)

DATE SAMPLE COLLECTED

PURCHASE ORDER NUMBER

PCB TESTS

*Ted Cobb*  
SAMPLE COLLECTED BY TED COBB

	PLANT NO.	SERIAL NO.	ITEM	BLDG. LOC.	FLUID	LAB ID NO.	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
1.	ROP-18445	946603	TRANSFORMER	854	OIL	06219301	ND	2 ppm	
2.	ROP-18467	2983374	"	"	"	06219302	60 @ 1260		
3.	ROP-18446	947010	"	"	"	06219303	5 @ 1254		
4.	NONE	742027840	"	"	"	06219304	ND	2 ppm	
5.	NONE (WBPS)	TD-00026	"	"	"	06219305	ND	2 ppm	
6.	NONE	D-4989-5	"	"	"	06219306	10 @ 1260		
7.	POD-2620	290282	"	"	"	06219307	ND	2 ppm	
8.	POD-2612	297835	"	"	"	06219308	ND	2 ppm	
9.	POD-2648	286821	"	"	"	06219309	ND	2 ppm	
10.	POD-2611	297830	"	"	"	06219310	ND	2 ppm	
11.	POD-2661	291093	"	"	"	06219311	ND	2 ppm	
12.	POD-2051	299710	"	"	"	06219312	ND	2 ppm	
13.	ROP-18466	2983369	"	"	"	06219313	59 @ 1260		
14.	ROP-18468	286093	"	"	"	06219314	ND	2 ppm	
15.	ROP-18578	3112486	"	"	"	06219315	32 @ 1260		
16.	POD-2610	297837	"	"	"	06219316	ND	2 ppm	
17.	NONE	73ZN052001	"	"	"	06219317	ND	2 ppm	
18.									

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH GAS CHROMATOGRAPHY METHODS PRESCRIBED IN ASTM D-40-59 OR EPA SW846 METHOD 8080.

AUTHORIZED SIGNATURE *John R Sans*  
 TYPED NAME John R. Sans  
 TITLE Laboratory Supervisor  
 LABORATORY NAME S. D. Myers, Inc.  
 DATE LAB RECEIVED SAMPLE 6-25-93  
 DATE REPORTED 6-30-93

27754 (BATCH #4)

PCB TESTS

DATE SAMPLE COLLECTED

PURCHASE ORDER NUMBER

*Ted Cobb*  
SAMPLE COLLECTED BY TED COBB

	PLANT NO.	SERIAL NO.	ITEM	BLDG. LOC.	FLUID	LAB ID NO.	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
1.	ROP-18445	946603	TRANSFORMER	854	OIL	06219301	ND	2 ppm	
2.	ROP-18467	2983374	"	"	"	06219302	60 @ 1260		
3.	ROP-18446	947010	"	"	"	06219303	5 @ 1254		
4.	NONE	742027840	"	"	"	06219304	ND	2 ppm	
5.	NONE (WBPS)	TD-00026	"	"	"	06219305	ND	2 ppm	
6.	NONE	D-4989-5	"	"	"	06219306	10 @ 1260		
7.	POD-2620	290282	"	"	"	06219307	ND	2 ppm	
8.	POD-2612	297835	"	"	"	06219308	ND	2 ppm	
9.	POD-2648	286821	"	"	"	06219309	ND	2 ppm	
10.	POD-2611	297830	"	"	"	06219310	ND	2 ppm	
11.	POD-2661	291093	"	"	"	06219311	ND	2 ppm	
12.	POD-2051	299710	"	"	"	06219312	ND	2 ppm	
13.	ROP-18466	2983369	"	"	"	06219313	59 @ 1260		
14.	ROP-18468	286093	"	"	"	06219314	ND	2 ppm	
15.	ROP-18578	3112486	"	"	"	06219315	32 @ 1260		
16.	POD-2610	297837	"	"	"	06219316	ND	2 ppm	
17.	NONE	73ZN052001	"	"	"	06219317	ND	2 ppm	
18.									

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH GAS CHROMATOGRAPHY METHODS PRESCRIBED IN ASTM D-40-59 OR EPA SW846 METHOD 8080.

AUTHORIZED SIGNATURE

*John R. Sans*  
John R. Sans

TYPED NAME

TITLE

Laboratory Supervisor

LABORATORY NAME

S. D. Myers, Inc.

DATE LAB RECEIVED SAMPLE

6-25-93

DATE REPORTED

6-30-93

## RAVENNA ARSENAL, INC.

PC 22404

P C B T E S T S3-18-91  
DATE SAMPLE COLLECTION

<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
1.	OIL	ROP 13691	LL #11 AP-6	OIL SWITCH	03129101	ND	
2.	OIL	ROP 13694	LL#11 AP-6	OIL SWITCH	03129102	ND	
3.	OIL	ROP 13569	LL#11 AP-11	OIL SWITCH	03129103	UP	
4.	OIL	ROP 13579	LL#11 AP-11	OIL SWITCH	03129104	UP	
5.	OIL	ROP 1447	PH5	OIL SWITCH	03129105	ND	
6.	OIL	ROP 1435	PH5	OIL SWITCH	03129106	ND	
7.	OIL	ROP 1434	PH5	OIL SWITCH	03129107	ND	
8.	OIL	SO 61540	LL#1 CB-10 VP-1	OIL SWITCH	03129108	UP	
9.	OIL	SO 60843	LL#1 CB-10 VP-1	OIL SWITCH	03129109	UP	
10.	OIL	61532	LL#1 CB-10 VP-2	OIL SWITCH	03129110	UP	
11.	OIL	60853	LL#1 CB-10 VP-2	OIL SWITCH	03129111	UP	
12.	OIL	61538	LL#1 CB-10 VP-3	OIL SWITCH	03129112	UP	
13.	OIL	60859	LL#1 CB-10 VP-3	OIL SWITCH	03129113	UP	

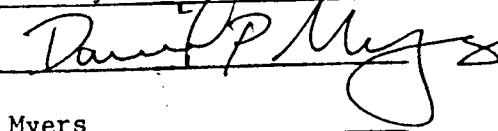
ND = None Detected

Detection limit is 2 ppm.

UP = Unidentified Peaks (The peaks in these samples could not be matched to any known prochlor.)

CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE  
SULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE  
THODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

## RAVENNA ARSENAL, INC.

P C B T E S T S3-18-91  
DATE SAMPLE COLLECTION

<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
1.	OIL	ROP 13691	LL #11 AP-6	OIL SWITCH	03129101	ND	
2.	OIL	ROP 13694	LL#11 AP-6	OIL SWITCH	03129102	ND	
3.	OIL	ROP 13569	LL#11 AP-11	OIL SWITCH	03129103	UP	
4.	OIL	ROP 13579	LL#11 AP-11	OIL SWITCH	03129104	UP	
5.	OIL	ROP 1447	PH5	OIL SWITCH	03129105	ND	
6.	OIL	ROP 1435	PH5	OIL SWITCH	03129106	ND	
7.	OIL	ROP 1434	PH5	OIL SWITCH	03129107	ND	
8.	OIL	SO 61540	LL#1 CB-10 VP-1	OIL SWITCH	03129108	UP	
9.	OIL	SO 60843	LL#1 CB-10 VP-1	OIL SWITCH	03129109	UP	
10.	OIL	61532	LL#1 CB-10 VP-2	OIL SWITCH	03129110	UP	
11.	OIL	60853	LL#1 CB-10 VP-2	OIL SWITCH	03129111	UP	
12.	OIL	61538	LL#1 CB-10 VP-3	OIL SWITCH	03129112	UP	
13.	OIL	60859	LL#1 CB-10 VT-3	OIL SWITCH	03129113	UP	

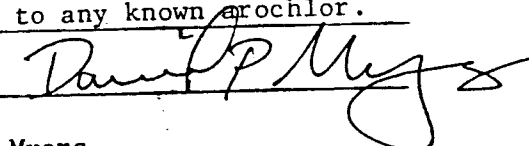
ND = None Detected

Detection limit is 2 ppm.

UP = Unidentified Peaks (The peaks in these samples could not be matched to any known arochlor.)

CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE  
SULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE  
THODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278



RAVENNA ARSENAL, INC.

P.C.B. TESTS

2-18-92

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

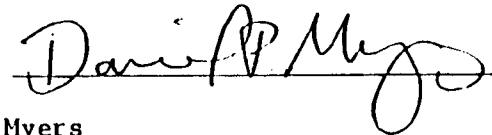
TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	none	Oil	none	G13-VP-2,LL4	Oil Switch	02189201	ND	
2.	9586H8046	"	none	FE-17,LL12	Oil Switch	02189202	ND	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

P.C.B. TESTS

2-18-92  
DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	none	Oil	none	G13-VP-2,LL4	Oil Switch	02189201	ND	
2.	9586H8046	"	none	FE-17,LL12	Oil Switch	02189202	ND	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE David P. Myers  
TYPED NAME David P. Myers  
TITLE Laboratory Manager  
LABORATORY NAME S. D. Myers, Inc.  
LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

SAMPLE COLLECTED: 12 MARCH 1993

PO NO. 27677

PCB TESTS

BY: *Richard E. Myers*  
RICHARD E. MYERS

PEP NO	ID	NO	ITEM	PLANT NO	BLDG LOC	SYSTEM	LAB ID NO	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
1	-		OIL DRUM	#89	854	TRANS. OIL	03129301	145	2	@1260
2	-		OIL DRUM	#90	854	TRANS. OIL	03129302	145	2	@1260
3	-									
4	-									
5	-									
6	-									
7	-									
8	-									
9	-									
10	-									
11	-									
12	-									
13	-									
14	-									
15	-									
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22	-									
23	-									

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE *John R. Sans*  
 TYPED NAME JOHN R. SANS  
 TITLE PCB LAB SUPERVISOR  
 LABORATORY NAME S.D. MYERS  
 DATE LAB RECEIVED SAMPLE MARCH 18, 1993  
 DATE REPORTED

RAVENNA ARSENAL, INC.

SAMPLE COLLECTED: 12 MARCH 1993

PO NO. 27677

PCB TESTS

BY: Richard E. Myers  
RICHARD E. MYERS

PEP NO	ID	NO	ITEM	PLANT NO	BLDG LOC	SYSTEM	LAB ID NO	PCB CONC. (PPM)	DETECTION LIMIT	REMARKS
1	-		OIL DRUM	#89	854	TRANS. OIL	03129301	145	2	@1260
2	-		OIL DRUM	#90	854	TRANS. OIL	03129302	145	2	@1260
3	-									
4	-									
5	-									
6	-									
7	-									
8	-									
9	-									
10	-									
11	-									
12	-									
13	-									
14	-									
15	-									
16	-									
17	-									
18	-									
19	-									
20	-									
21	-									
22	-									
23	-									

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE John R Sams  
 TYPED NAME JOHN R. SANS  
 TITLE PCB LAB SUPERVISOR  
 LABORATORY NAME S.D.MYERS  
 DATE LAB RECEIVED SAMPLE MARCH 18, 1993  
 DATE REPORTED \_\_\_\_\_

RAVENNA ARSENAL, INC.

P.O. 24589

P.C.B. TESTS

12-9-91

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	2019079G7	OIL	NONE	LL4 G4 PH7	OCB	12099101	ND	
2.	S1292	"	APCO 9422	LL4 G4 PH7	OCB	12099102	103 @ 1242 + 199 @ 1260	Total = 302
3.	NONE	"	APCO 9420	FE-17 PH3	MOTOR CONTROLLER	12099103	330 @ 1260	
4.	607627 ✓	"	ROP 1744	WW1 E,C,&M	AUTO COMPENSATOR	12099104	ND	
5.	CR 1034-K1	"	ROP 23064	LL1 CB-13	OCB	12099105	29 @ 1260	
6.	562980	"	ORD 408	S3403, BG	OCB	12099106	ND	

Detection limit is 2 ppm.

**RECEIVED**  
MAINTENANCE DEPT.

JAN - 9 1992

7 8 9 10 11 12 1 2 3 4 5 6

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE

*David P. Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

*Sandy*

PCB TESTS

P.O. 23754

REPLACEMENT FOR  
DAMAGED SAMPLE TAKEN 9-6  
DATE SAMPLE COLLECTION

PEP NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1	D-3009-145	011	ROP21242	854	TRANSFORMER	09069102	ND	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE *David P. Myers*  
TYPED NAME David P. Myers  
TITLE Laboratory Manager  
LABORATORY NAME S. D. Myers, Inc.  
LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

P C B T E S T S

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

*Sandy*

<u>REP. NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
1	D-5009-145	011	ROP21242	854	TRANSFORMER	09069102	ND	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(8).

AUTHORIZED SIGNATURE *David P. Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

*of R. McConnell*  
*D. Dutta*

RAVENNA ARSENAL, INC.

P.C.B. TESTS

10-21-91

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	3130409	oil	ROP18906	854	Transformer	10219101	Masked @ 1260 29 @ 1254	
2.	3130407	"	ROP18917	"	"	10219102	Masked @ 1260 26 @ 1254	
3.	3130416	"	ROP18924	"	"	10219103	Masked @ 1260 27 @ 1254	
4.	3130410	"	ROP18925	"	"	10219104	Masked @ 1260 30 @ 1254	
5.	2565885	"	ROP18556	"	"	10219105	ND	
6.	6715346	"	ROP18312	"	"	10219106	129 @ 1260	
7.	6715072	"	ROP18319	"	"	10219107	136 @ 1260	
8.	6290541	"	ROP18528	"	"	10219108	58 @ 1260	
9.	6284583	"	ROP18572	"	"	10219109	32 @ 1260	
10.	6290692	"	ROP18454	"	"	10219110	210 @ 1260	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE

*David P. Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278



*of L. Mc Connell  
D. Sullivan*

RAVENNA ARSENAL, INC.

TIME IN: \_\_\_\_\_

P.C.B. TESTS

10-21-91

TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	3130409	Oil	ROP18906	854	Transformer	10219101	Masked @ 1260 29 @ 1254	
2.	3130407	"	ROP18917	"	"	10219102	Masked @ 1260 26 @ 1254	
3.	3130416	"	ROP18924	"	"	10219103	Masked @ 1260 27 @ 1254	
4.	3130410	"	ROP18925	"	"	10219104	Masked @ 1260 30 @ 1254	
5.	2565885	"	ROP18556	"	"	10219105	ND	
6.	6715346	"	ROP18312	"	"	10219106	129 @ 1260	
7.	6715072	"	ROP18319	"	"	10219107	136 @ 1260	
8.	6290541	"	ROP18528	"	"	10219108	58 @ 1260	
9.	6284583	"	ROP18572	"	"	10219109	32 @ 1260	
10.	6290692	"	ROP18454	"	"	10219110	210 @ 1260	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE

*David P. Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

P.O. 23347

7-25-91

DATE SAMPLE COLLECTION

TIME IN: 8-12-91

P.C.B. TESTS

TIME OUT: 8-13-91

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	3691825	Oil	21239 Rt.	854	Transformer	07259101	36	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE

*Bonita K. Green*

TYPED NAME BONITA K. GREEN

TITLE PCB SUPERVISOR

LABORATORY NAME S.D. MYERS

LABORATORY ADDRESS 180 SOUTH AVE., TALLMADGE, OH 44278

RAVENNA ARSENAL, INC.

P.O. 23347

P.C.B. TESTS

7-25-91

DATE SAMPLE COLLECTION

TIME IN: 8-12-91

TIME OUT: 8-13-91

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	3691825	Oil	21239 Rt.	854	Transformer	07259101	36	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE Bonita K. Green  
 TYPED NAME BONITA K. GREEN  
 TITLE PCB SUPERVISOR  
 LABORATORY NAME S.D. MYERS  
 LABORATORY ADDRESS 180 SOUTH AVE., TALLMADGE, OH 44278

RAVENNA ARSENAL, INC.

P.O. 23315

P.C.B. TESTS

7-15-91

DATE SAMPLE COLLECTION

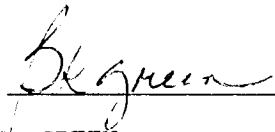
TIME IN: 7-31-91

TIME OUT: 8-5-91

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	2019079G7	Oil	ROP 24471	PH#3	OCB	07159101	ND	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE



TYPED NAME

BONITA K. GREEN

TITLE

PCB SUPERVISOR

LABORATORY NAME

S.D. MYERS

LABORATORY ADDRESS

180 SOUTH AVE., TALLMADGE, OH 44278

P.O. 23315

RAVENNA ARSENAL, INC.

7-15-91

P.C.B. TESTS

DATE SAMPLE COLLECTION

TIME IN: 7-31-91

TIME OUT: 8-5-91

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	2019079G7	Oil	ROP 24471	PH#3	OCB	07159101	ND	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE *B. Green*  
 TYPED NAME BONITA K. GREEN  
 TITLE PCB SUPERVISOR  
 LABORATORY NAME S.D. MYERS  
 LABORATORY ADDRESS 180 SOUTH AVE., TALLMADGE, OH 44278

cf: Nelson

P.O. 22837

RAVENNA ARSENAL, INC.

P.C.B. TESTS

5-9-91

DATE SAMPLE COLLECTION

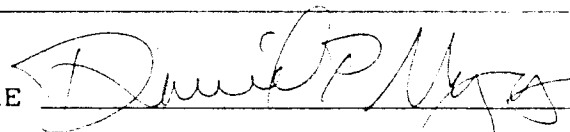
TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(SERIAL NO.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	946599 <del>05099101x</del>	Oil	ROP 18249	854	Transformer	05099101	ND	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE 

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

P.C.B. TESTS

01-15-91

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	(Serial No.) I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	607628	Oil	WW#2 Fire Pump	WW#2	Controller compensator	01159101	ND	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE

*David P. Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

original To

12-6-90

P.C.B. TESTS

DATE SAMPLE COLLECTION

NAME IN: \_\_\_\_\_

NAME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	287024	oil	18449	854	Transformer	12069001	243 @ 1260	
2.	367936	"	ROP-15900	854	"	12069002	ND	
3.	6577918	"	ROP-18494 (middle)	854	"	12069003	134 @ 1260	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE

*David P. Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278



P.C.B. TESTS

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_  
 TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	287024	oil	18449	854	Transformer	12069001	243 @ 1260	
2.	367936	"	ROP-15900	854	"	12069002	ND	
3.	6577918	"	ROP-18494 (middle)	854	"	12069003	134 @ 1260	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S. D. Myers, Inc.  
 LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

P.O. 21012  
Original To

12-6-90

P.C.B. TESTS

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

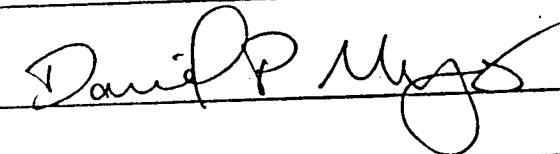
TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	287024	Oil	18449	854	Transformer	12069001	243 @ 1260	
2.	367936	"	ROP-15900	854	"	12069002	ND	
3.	6577918	"	ROP-18494 (middle)	854	"	12069003	134 @ 1260	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

P.O. 21012  
Original To

12-6-90

P.C.B. TESTS

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

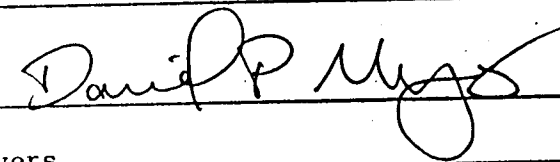
TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	287024	Oil	18449	854	Transformer	12069001	243 @ 1260	
2.	367936	"	ROP-15900	854	"	12069002	ND	
3.	6577918	"	ROP-18494 (middle)	854	"	12069003	134 @ 1260	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

10-23-90

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

P.C.B. TESTS

TIME OUT: \_\_\_\_\_

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	946598	Oil	18447	854	Transformer	10239001	ND	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE

*David P. Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

P.O. 21131

TIME IN: \_\_\_\_\_

P.C.B. TESTS

9-7-90  
DATE SAMPLE COLLECTION

TIME OUT: \_\_\_\_\_

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	DRUM #34	Hexane for Diluent	None	854-14		09079005	ND	
2.	DRUM #33	" " "	"	"		09079004	ND	
3.	DRUM #32	" " "	"	"		09079003	ND	
4.	DRUM #31	" " "	"	"		09079002	ND	
5.	DRUM #3	" " "	"	"		09079001	ND	

Detection Limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

P.O. 21131

TIME IN: \_\_\_\_\_

P.C.B. TESTS

8-23-90

DATE SAMPLE COLLECTION

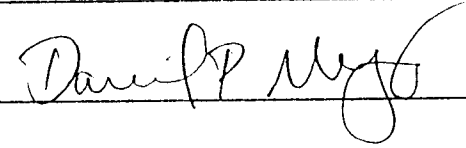
TIME OUT: \_\_\_\_\_

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	Drum #42	Hexane for diluent	None	854		08239004	50 @ 1254	
2.	Drum #41	" " "	"	"		08239003	42 @ 1254	
3.	Drum #40	" " "	"	"		08239002	ND	
4.	Drum #43	" " "	"	"		08239001	31 @ 1254	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

PURCHASE ORDER 20905

P.C.B. TESTS

8-3-90

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	None	Oil	18248	854	OCB	08039001	ND	
2.	CR-4841-FD-3	"	18251	"	"	08039002	ND	
3.	CR-7841-FD-3	"	18257	"	"	08039003	ND	
4.	None	"	18254	"	"	08039004	ND	
5.	946601	"	18255	"	Trans	08039005	ND	
6.	286252	"	18258	"	"	08039006	ND	
7.	CAT.5360304	"	18238	"	OCB	08039007	ND	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE David P. Myers  
TYPED NAME David P. Myers  
TITLE Laboratory Manager  
LABORATORY NAME S. D. Myers, Inc.  
LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

PURCHASE ORDER 20905

P.C.B. TESTS

8-3-90

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

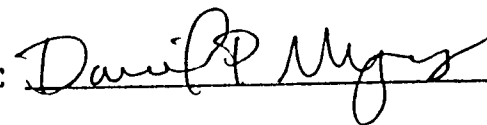
TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	None	Oil	18248	854	OCB	08039001	ND	
2.	CR-4841-FD-3	"	18251	"	"	08039002	ND	
3.	CR-7841-FD-3	"	18257	"	"	08039003	ND	
4.	None	"	18254	"	"	08039004	ND	
5.	946601	"	18255	"	Trans	08039005	ND	
6.	286252	"	18258	"	"	08039006	ND	
7.	CAT. 5360304	"	18238	"	OCB	08039007	ND	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278



RAVENNA ARSENAL, INC.

PURCHASE ORDER 20905

TIME IN: \_\_\_\_\_

P.C.B. TESTS

8-3-90  
DATE SAMPLE COLLECTION

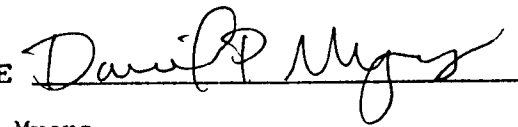
TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARK
1.	None	Oil	18248	854	OCB	08039001	ND	
2.	CR-4841-FD-3	"	18251	"	"	08039002	ND	
3.	CR-7841-FD-3	"	18257	"	"	08039003	ND	
4.	None	"	18254	"	"	08039004	ND	
5.	946601	"	18255	"	Trans	08039005	ND	
6.	286252	"	18258	"	"	08039006	ND	
7.	CAT.5360304	"	18238	"	OCB	08039007	ND	

Detection limit is 2 ppm.

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AUTHORIZED SIGNATURE



TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

PURCHASE ORDER 20905

P.C.B. TESTS

8-3-90  
DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	None	Oil	18248	854	OCB	08039001	ND	
2.	CR-4841-FD-3	"	18251	"	"	08039002	ND	
3.	CR-7841-FD-3	"	18257	"	"	08039003	ND	
4.	None	"	18254	"	"	08039004	ND	
5.	946601	"	18255	"	Trans	08039005	ND	
6.	286252	"	18258	"	"	08039006	ND	
7.	CAT. 5360304	"	18238	"	OCB	08039007	ND	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

PURCHASE ORDER 20905

P.C.B. TESTS

8-3-90

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	None	Oil	18248	854	OCB	08039001	ND	
2.	CR-4841-FD-3	"	18251	"	"	08039002	ND	
3.	CR-7841-FD-3	"	18257	"	"	08039003	ND	
4.	None	"	18254	"	"	08039004	ND	
5.	946601	"	18255	"	Trans	08039005	ND	
6.	286252	"	18258	"	"	08039006	ND	
7.	CAT.5360304	"	18238	"	OCB	08039007	ND	

Detection limit is 2 ppm.

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AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

PURCHASE ORDER 20905

P.C.B. TESTS

8-3-90

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	None	Oil	18248	854	OCB	08039001	ND	
2.	CR-4841-FD-3	"	18251	"	"	08039002	ND	
3.	CR-7841-FD-3	"	18257	"	"	08039003	ND	
4.	None	"	18254	"	"	08039004	ND	
5.	946601	"	18255	"	Trans	08039005	ND	
6.	286252	"	18258	"	"	08039006	ND	
7.	CAT.5360304	"	18238	"	OCB	08039007	ND	

Detection limit is 2 ppm.

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AUTHORIZED SIGNATURE *David P. Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

RAVENNA ARSENAL, INC.

PURCHASE ORDER 20905

P.C.B. TESTS

8-3-90

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	Serial No. I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	None	Oil	18248	854	OCB	08039001	ND	
2.	CR-4841-FD-3	"	18251	"	"	08039002	ND	
3.	CR-7841-FD-3	"	18257	"	"	08039003	ND	
4.	None	"	18254	"	"	08039004	ND	
5.	946601	"	18255	"	Trans	08039005	ND	
6.	286252	"	18258	"	"	08039006	ND	
7.	CAT.5360304	"	18238	"	OCB	08039007	ND	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

cf. Dan Dutton  
L. McConie 4-15  
P.O. file

RAVENNA ARSENAL, INC.

P.O. 20899  
Page 1 of 2.

7-19-90

TIME IN: \_\_\_\_\_

P.C.B. TESTS

DATE SAMPLE COLLECTION

TIME OUT: \_\_\_\_\_

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG LOCATION	SYSTEM	LAB I.D. #	PCB CONC. (ppm)	REMARKS
1.	3130408	011	ROP 18588	854	Trans	07199001	33 (1254)	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers

LABORATORY ADDRESS P.O. Box 4724 Akron, OH 44310-0575

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

P C B T E S T S

ef: Dan Dutton  
L. McConnell  
P.O. File

DATE SAMPLE COLLECTION

PCB  
CONC. 7/11/90 +

<u>ITEM NO.</u>	<u>SERIAL NO. I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
1.	946632	011	18355	854	Transformer	07119001	2 (1260)	
2.	946629	"	18314	"	"	07119002	2 (1260)	
3.	946330	"	18316	"	"	07119003	2 (1260)	
4.	3130412	"	ROP 18916	"	"	07119004	28 (1254)	"masked"
5.	3130417	"	ROP 18 <sup>18600</sup> <sub>850</sub>	"	"	07119005	30 (1254)	"masked"
6.	6284652	"	18923	"	"	07119006	31 (1260)	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE DP Myers  
TYPED NAME David P. Myers  
TITLE Laboratory Manager  
LABORATORY NAME S. D. Myers  
LABORATORY ADDRESS P.O. Box 4724 Akron, OH  
44310-0575

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

P C B T E S T S

cf: Dan Dutton  
L. McConnell  
P.O. File

DATE SAMPLE COLLECTION

+ 2/11/90  
(Sp. Collected)

<u>ITEM NO.</u>	<u>SERIAL NO. I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
1.	946632	Oil	18355	854	Transformer	07119001	2 (1260)	
2.	946629	"	18314	"	"	07119002	2 (1260)	
3.	946330	"	18316	"	"	07119003	2 (1260)	
4.	3130412	"	ROP 18916	"	"	07119004	28 (1254)	"masked"
5.	3130417	"	ROP 18 <sup>18600</sup> <sub>650</sub>	"	"	07119005	30 (1254)	"masked"
6.	6284652	"	18923	"	"	07119006	31 (1260)	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE DP Myers  
TYPED NAME David P. Myers  
TITLE Laboratory Manager  
LABORATORY NAME S. D. Myers  
LABORATORY ADDRESS P.O. Box 4724 Akron, OH  
44310-0575



TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

P C B T E S T S

cf: Dan Dutton  
L. McConnell  
P.O. File

DATE SAMPLE COLLECTION

7/11/90

<u>ITEM NO.</u>	<u>SERIAL NO. I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
1.	946632	Oil	18355	854	Transformer	07119001	2 (1260)	
2.	946629	"	18314	"	"	07119002	2 (1260)	
3.	946330	"	18316	"	"	07119003	2 (1260)	
4.	3130412	"	ROP 18916	"	"	07119004	28 (1254)	"masked"
5.	3130417	"	ROP 18 <sup>18600</sup> <sub>650</sub>	"	"	07119005	30 (1254)	"masked"
6.	6284652	"	18923	"	"	07119006	31 (1260)	

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AUTHORIZED SIGNATURE DP Myers  
TYPED NAME David P. Myers  
TITLE Laboratory Manager  
LABORATORY NAME S. D. Myers  
LABORATORY ADDRESS P.O. Box 4724 Akron, OH  
44310-0575

TIME IN: \_\_\_\_\_

P C B T E S T S

P.O. 20679

7-11-90

TIME OUT: \_\_\_\_\_

cf: Dan Dutton  
L McConnell  
P.O. File

DATE SAMPLE COLLECTION: \_\_\_\_\_

ITEM NO.	SERIAL NO. I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	946632	011	18355	854	Transformer	07119001	2 (1260)	
2.	946629	"	18314	"	"	07119002	2 (1260)	
3.	946330	"	18316	"	"	07119003	2 (1260)	
4.	3130412	"	ROP 18916	"	"	07119004	28 (1254)	"masked"
5.	3130417	"	ROP 18 <sup>18600</sup> <sub>630</sub>	"	"	07119005	30 (1254)	"masked"
6.	6284652	"	18923	"	"	07119006	31 (1260)	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE DP Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers

LABORATORY ADDRESS P.O. Box 4724 Akron, OH

44310-0575

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

P C B T E S T S

ef: Dan Dutton  
L. McConnell  
P.O. File

DATE SAMPLE COLLECTION: \_\_\_\_\_

<u>ITEM NO.</u>	<u>SERIAL NO. I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
1.	946632	Oil	18355	854	Transformer	07119001	2 (1260)	
2.	946629	"	18314	"	"	07119002	2 (1260)	
3.	946330	"	18316	"	"	07119003	2 (1260)	
4.	3130412	"	ROP 18916	"	"	07119004	28 (1254)	"masked"
5.	3130417	"	ROP 18 <sup>18600</sup> <sub>650</sub>	"	"	07119005	30 (1254)	"masked"
6.	6284652	"	18923	"	"	07119006	31 (1260)	

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AUTHORIZED SIGNATURE DP Myers  
TYPED NAME David P. Myers  
TITLE Laboratory Manager  
LABORATORY NAME S. D. Myers  
LABORATORY ADDRESS P.O. Box 4724 Akron, OH  
44310-0575

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

P C B T E S T S

P.O. 20679

7-11-90

cf: Dan Dutton  
L. McConnell  
P.O. File

DATE SAMPLE COLLECTION

ITEM NO.	SERIAL NO. I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	946632	Oil	18355	854	Transformer	07119001	2 (1260)	
2.	946629	"	18314	"	"	07119002	2 (1260)	
3.	946330	"	18316	"	"	07119003	2 (1260)	
4.	3130412	"	ROP 18916	"	"	07119004	28 (1254)	"masked"
5.	3130417	"	ROP 18 <sup>18600</sup> <sub>650</sub>	"	"	07119005	30 (1254)	"masked"
6.	6284652	"	18923	"	"	07119006	31 (1260)	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE DP Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers

LABORATORY ADDRESS P.O. Box 4724 Akron, OH

PC 20695

JUNE 20, 1990

TIME IN: 7-10-90  
TIME OUT: 7-24-90

P C B T E S T S

DATE SAMPLE COLLECTION

<u>PEP NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm) (ug)</u>	<u>REMARKS</u>
PEP-234	3419-04077	RIFLING MCH.	L-2880	2/2 SKID - 804-29	Carriage Coolant Pump	6-20-90-001		16
PEP-234	3419-04078	RIFLING MCH.	L-2881	1/2 SKID - 807-1L	Carriage Coolant Pump	6-20-90-002		8
PEP-234	3419-01433	RIFLING MCH.	L-2872	1/3 SKID - 810-25	Carriage Coolant Pump	6-20-90-003		4
PEP-444	3419-01435	RIFLING MCH.	L-2873	1/1 SKID - 804-24	Carriage Coolant Pump	6-20-90-004		15
PEP-234	3419-09430	RIFLING MCH.	RVA-5874	1/1 SKID - 812-7R	Carriage Coolant Pump	6-20-90-005		20 Matrix Interference

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE Bryce A. Custer  
 TYPED NAME Bryce A. Custer  
 TITLE Sr. Project Manager  
 LABORATORY NAME Wadsworth/ALERT Laboratories  
 LABORATORY ADDRESS 4101 Shuffel Drive NW  
North Canton, Ohio 44720

ETO: 5764445

PCB TESTS

6-27-90  
DATE SAMPLE COLLECTION

IN: \_\_\_\_\_

ENG - 58/59-90

OUT: \_\_\_\_\_

PCB  
CONC.  
(ppm)

REMARKS

NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	308829	oil	ROP 2055	854	TRANS.	06229001		NR ND
2.	D-5009-144	oil	ROP 21178	854	TRANS.	06279001		ND
3.	D-5009-148	oil	ROP 21177	854	TRANS.	06279002		ND
4.	944326	oil	ROP 18420	854	TRANS.	06279003		ND
5.	UNKNOWN	oil	ROP 18828	854	TRANS.	06279004		ND
6.	UNK	oil	ROP 18922 <sup>9</sup>	854	TRANS.	06279005		1260-28 ND
7.	D-5009-138	oil	ROP 21179	854	TRANS.	06279006		ND
8.	823756	oil	ROP 18318	854	TRANS.	06279007		1260-2
9.	823755	oil	ROP 18263	854	TRANS.	06279008		ND
10.	D-5009-141	oil	ROP 21250	854	TRANS.	06279009		ND
11.	D-5009-142	oil	ROP 21249	854	TRANS.	06279010		ND
12.	D-5009-149	oil	ROP 21251	854	TRANS.	06279011		

002

RAVENNA ARSENAL, INC.

15:08

08/07/90

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S.D. Myers  
 LABORATORY ADDRESS P.O. BOX 4724  
AKRON, OHIO 44310-0575

CUST-RAVENNA ARSENAL  
 SUB NAME-

CITY - RAVENNA OH  
 UNIT#- 18922

LOCATION- INDOOR /  
 OTHER -

**NAMEPLATE DATA**

MFG- EQUIP TYPE - TRANSFORMER  
 DATE MFG - TRANS CLASS -  
 S/N- 06279005 IMPEDENCE -  
 KVA- PHASE/CYCLE -  
 PRI- LIQUID TYPE - OIL  
 SEC- GAL LIQUID -  
 WEIGHT- OTHER ACCESS -

**ADDITIONAL EQUIPMENT**

RADIATORS - CONSERVATOR-  
 FANS - LTC COMPARTMENT-  
 H2O COOLED - BUSHING LOC-  
 OIL PUMPS - FREE BREATHER-  
 TOP FPV - HOSE LENGTH-  
 BOTTOM FPV - SERVICE ON-LINE- YES  
 POWER AVAILABLE- NO

**VISUAL INSPECTION**

DATE LEVEL TEMP P/V PAINT LEAKS

**FIELD SERVICE**

DATE SERVICE  
 1/88 DEHYDRATE

**LIQUID SCREEN TEST DATA**

DATE SERVICE ACID IFT DIEL COLOR SP. GR. VISUAL SEDIMENT

**INHIBITOR CONTENT**

DATE % BY WEIGHT

**LIQUID POWER FACTOR**

DATE 25 C 100 C

NOTE - THE INHIBITOR CONTENT TEST IS USEFUL TO PREDICT THE AGING OF THE TRANSFORMER'S PAPER INSULATION SYSTEM.

THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

JST-RAVENNA ARSENAL

ID#- 00509400

DATE PRINTED 7/23/90

FG-

KVA-

PRIMARY-

SUB NAME-

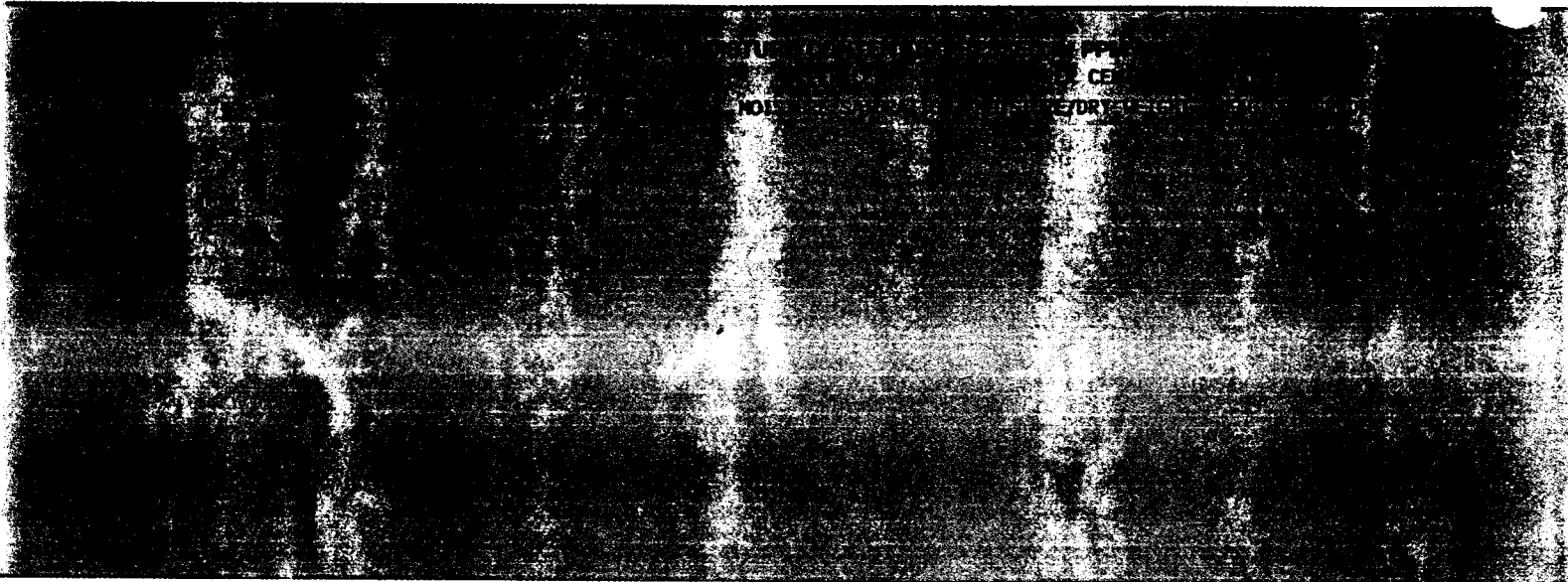
UNIT #-18922

/N- 06279005

GAL-

SECONDARY-

LOCATION- INDOOR /



**GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	-------------------	-----------

THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF

IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**ICP METALS-IN-OIL EXPRESSED IN PPM**

DATE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER
------	----------	------	------	--------	------	--------

A DISSOLVED METALS-IN-OIL TEST CAN BE MEANINGFUL IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**PCB CONTENT EXPRESSED IN PPM**

DATE	1242	1254	1260	OTHER	TOTAL
6/27/90				28	28

COLOR LABEL - GREEN CLASS - NON-PCB



ETO 5764445 PCB TESTS

6-27-90  
DATE SAMPLE COLLECTION

IN: \_\_\_\_\_  
OUT: \_\_\_\_\_

Eng 58/59-90

REVENUE ARSENAL, INC. #

15:08

08/07/90

NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (PPM)	REMARKS
1.	3088829	oil	ROP 2055	854	TRANS.	06229001		NR
2.	D-5009-144	oil	ROP 21178	854	TRANS.	06279001		ND
3.	D-5009-148	oil	ROP 21177	854	TRANS.	06279002		ND
4.	944326	oil	ROP 18420	854	TRANS.	06279003		ND
5.	UNKNOWN	oil	ROP 18828	854	TRANS.	06279004		1260=28
6.	UNK	oil	ROP 18922	854	TRANS.	06279005		ND
7.	D-5009-138	oil	ROP 21179	854	TRANS.	06279006		ND
8.	823756	oil	ROP 18318	854	TRANS.	06279007		1260-2
9.	823755	oil	ROP 18263	854	TRANS.	06279008		ND
10.	D-5009-141	oil	ROP 21250	854	TRANS.	06279009		ND
11.	D-5009-142	oil	ROP 21249	854	TRANS.	06279010		ND
12.	D-5009-149	oil	ROP 21251	854	TRANS.	06279011		

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(B):

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S.D. Myers  
 LABORATORY ADDRESS P.O. BOX 4724  
AKRON, OHIO 44310-0575

CUST-RAVENNA ARSENAL

CITY - RAVENNA OH

LOCATION- INDOOR /

SUB NAME-

UNIT#- 18828

OTHER -

**NAMEPLATE DATA**

MFG- EQUIP TYPE - TRANSFORMER  
 DATE MFG - TRANS CLASS -  
 S/N- 06279004 IMPEDENCE -  
 KVA- PHASE/CYCLE -  
 PRI- LIQUID TYPE - OIL  
 SEC- GAL LIQUID -  
 WEIGHT- OTHER ACCESS -

**ADDITIONAL EQUIPMENT**

RADIATORS - CONSERVATOR-  
 FANS - LTC COMPARTMENT-  
 H2O COOLED - BUSHING LOC-  
 OIL PUMPS - FREE BREATHER-  
 TOP FPV - HOSE LENGTH-  
 BOTTOM FPV - SERVICE ON-LINE- YES  
 POWER AVAILABLE- NO

**VISUAL INSPECTION**

DATE LEVEL TEMP P/V PAINT LEAKS

**FIELD SERVICE**

DATE SERVICE  
 1/88 DEHYDRATE

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	ACID	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT
------	---------	------	-----	------	-------	---------	--------	----------

**INHIBITOR CONTENT**

DATE	% BY WEIGHT
------	-------------

**LIQUID POWER FACTOR**

DATE	25 C	100 C
------	------	-------

NOTE - THE INHIBITOR CONTENT TEST IS USEFUL TO PREDICT THE AGING OF THE TRANSFORMER'S PAPER INSULATION SYSTEM.

THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

CUST-RAVENNA ARSENAL

ID#- 00509400

DATE PRINTED 7/23/90

MFG-

KVA-

PRIMARY-

SUB NAME-

UNIT #-18828

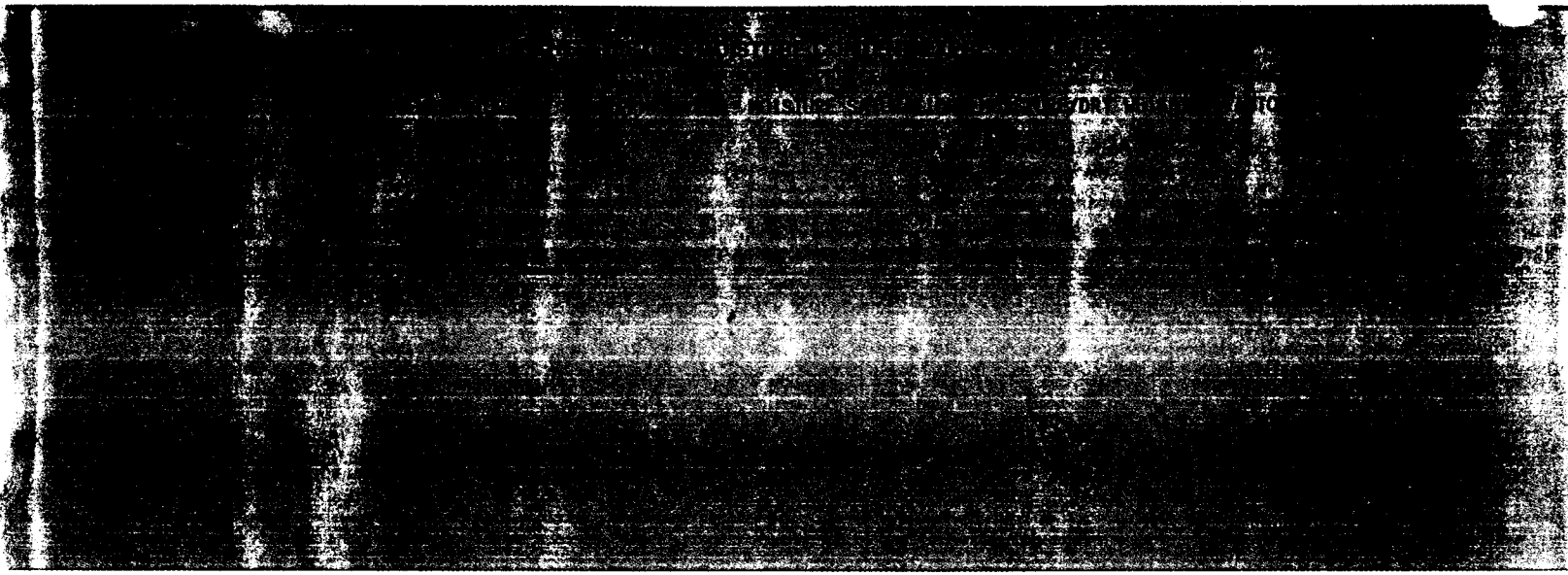
S/N- 06279004

GAL-

SECONDARY-

LOCATION-

INDOOR /



**GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	COMBUSTIBLE	TOTAL CARBON	TOTAL GAS
------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	-------------	--------------	-----------

\* THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF

\* IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**ICP METALS-IN-OIL EXPRESSED IN PPM**

DATE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER
------	----------	------	------	--------	------	--------

**PCB CONTENT EXPRESSED IN PPM**

DATE	1242	1254	1260	OTHER	TOTAL
6/27/90					ND

COLOR LABEL - GREEN CLASS - NON-PCB

\*A DISSOLVED METALS-IN-OIL TEST CAN BE MEANINGFUL IN EVALUATING  
\*IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

ETO'S 57644 & 45  
 Eng 58 & 59-90 PCB TESTS

6-27-90  
 DATE SAMPLE COLLECTION

022  
 022  
 06/27/90

NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	3088829	oil	ROP 2055	854	TRANS.	06229001		NR
2.	D-5009-144	oil	ROP 21178	854	TRANS.	06279001		ND
3.	D-5009-148	oil	ROP 21177	854	TRANS.	06279002		ND
4.	944326	oil	ROP 18420	854	TRANS.	06279003		ND
5.	UNKNOWN	oil	ROP 18828	854	TRANS.	06279004		ND
6.	UNK	oil	ROP 18922	854	TRANS.	06279005		1260=28
7.	D-5009-138	oil	ROP 21179	854	TRANS.	06279006		ND
8.	823756	oil	ROP 18318	854	TRANS.	06279007		ND
9.	823755	oil	ROP 18263	854	TRANS.	06279008		1260-2
10.	D-5009-141	oil	ROP 21250	854	TRANS.	06279009		ND
11.	D-5009-142	oil	ROP 21249	854	TRANS.	06279010		ND
12.	D-5009-149	oil	ROP 21251	854	TRANS.	06279011		ND

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(b):

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S.D. Myers  
 LABORATORY ADDRESS P.O. BOX 4724  
AKRON, OHIO 44310-0575

CUST-RAVENNA ARSENAL

ID#- 00509400

DATE PRINTED 7/23/90

MFG-

KVA-

PRIMARY-

SUB NAME-

UNIT #-18263

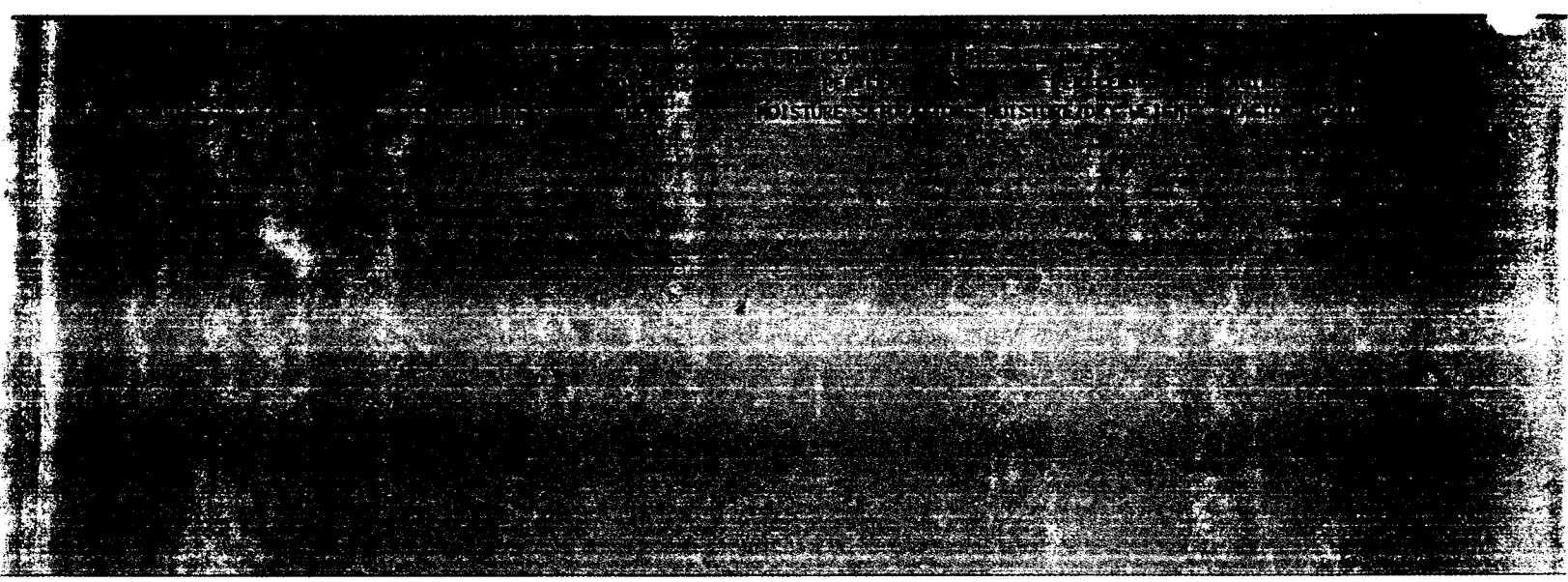
S/N- 823755

GAL-

SECONDARY-

LOCATION-

INDOOR /



**GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	-------------------	-----------

\* THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF

\* IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**ICP METALS-IN-OIL EXPRESSED IN PPM**

DATE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER
------	----------	------	------	--------	------	--------

**PCB CONTENT EXPRESSED IN PPM**

DATE	1242	1254	1260	OTHER	TOTAL
6/27/90			2		2

COLOR LABEL - GREEN CLASS - NON-PCB

\*A DISSOLVED METALS-IN-OIL TEST CAN BE MEANINGFUL IN EVALUATING  
\*IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.



180 SOUTH AVENUE

TALLMADGE, OHIO 44278

ID#- 00509400

TC#

9468

DATE PRINTED 7/23/90

CUST-RAVENNA ARSENAL  
SUB NAME-

CITY - RAVENNA OH  
UNIT#- 18263

LOCATION- INDOOR /  
OTHER -

NAMEPLATE DATA

MFG- EQUIP TYPE - TRANSFORMER  
DATE MFG - TRANS CLASS -  
S/N- 823755 IMPEDENCE -  
KVA- PHASE/CYCLE -  
PRI- LIQUID TYPE - OIL  
SEC- GAL LIQUID -  
WEIGHT- OTHER ACCESS -

ADDITIONAL EQUIPMENT

RADIATORS - CONSERVATOR-  
FANS - LTC COMPARTMENT-  
H2O COOLED - BUSHING LOC-  
OIL PUMPS - FREE BREATHER-  
TOP FPV - HOSE LENGTH-  
BOTTOM FPV - SERVICE ON-LINE- YES  
POWER AVAILABLE- NO

VISUAL INSPECTION

DATE LEVEL TEMP P/V PAINT LEAKS

FIELD SERVICE

DATE SERVICE  
1/88 DEHYDRATE

LIQUID SCREEN TEST DATA

DATE SERVICE ACID IFT DIELECTRIC COLOR SP. GR. VISUAL SEDIMENT

INHIBITOR CONTENT

DATE % BY WEIGHT

LIQUID POWER FACTOR

DATE 25 C 100 C

NOTE - THE INHIBITOR CONTENT TEST IS USEFUL TO PREDICT THE AGING OF THE TRANSFORMER'S PAPER INSULATION SYSTEM.

THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

ETOS 5764445 PCB TESTS  
 ENG 58759-90

6-27-90  
 DATE SAMPLE COLLECTION

IN: \_\_\_\_\_  
 OUT: \_\_\_\_\_

082  
 RAVENNA ARSENAL, INC.  
 15:08  
 08/07/90

NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	3088829	oil	ROP 2055	854	TRANS.	06229001		NR ND
2.	D-5009-144	oil	ROP 21178	854	TRANS.	06279001		ND
3.	D-5009-148	oil	ROP 21177	854	TRANS.	06279002		ND
4.	944326	oil	ROP 18420	854	TRANS.	06279003		ND
5.	UNKNOWN	oil	ROP 18828	854	TRANS.	06279004		ND
6.	UNK	oil	ROP 18922	854	TRANS.	06279005		1260=28 ND
7.	D-5009-138	oil	ROP 21179	854	TRANS.	06279006		ND
8.	823756	oil	ROP 18318	854	TRANS.	06279007		1260-2 ND
9.	823755	oil	ROP 18263	854	TRANS.	06279008		ND
10.	D-5009-141	oil	ROP 21250	854	TRANS.	06279009		ND
11.	D-5009-142	oil	ROP 21249	854	TRANS.	06279010		ND
12.	D-5009-149	oil	ROP 21251	854	TRANS.	06279011		

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(B):

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S.D. Myers  
 LABORATORY ADDRESS P.O. BOX 4724  
AKRON, OHIO 44310-0575

POST-RAVENNA ARSENAL

ID#- 00509400

DATE PRINTED 7/23/90

FG-

KVA-

PRIMARY-

SUB NAME-

UNIT #-18318

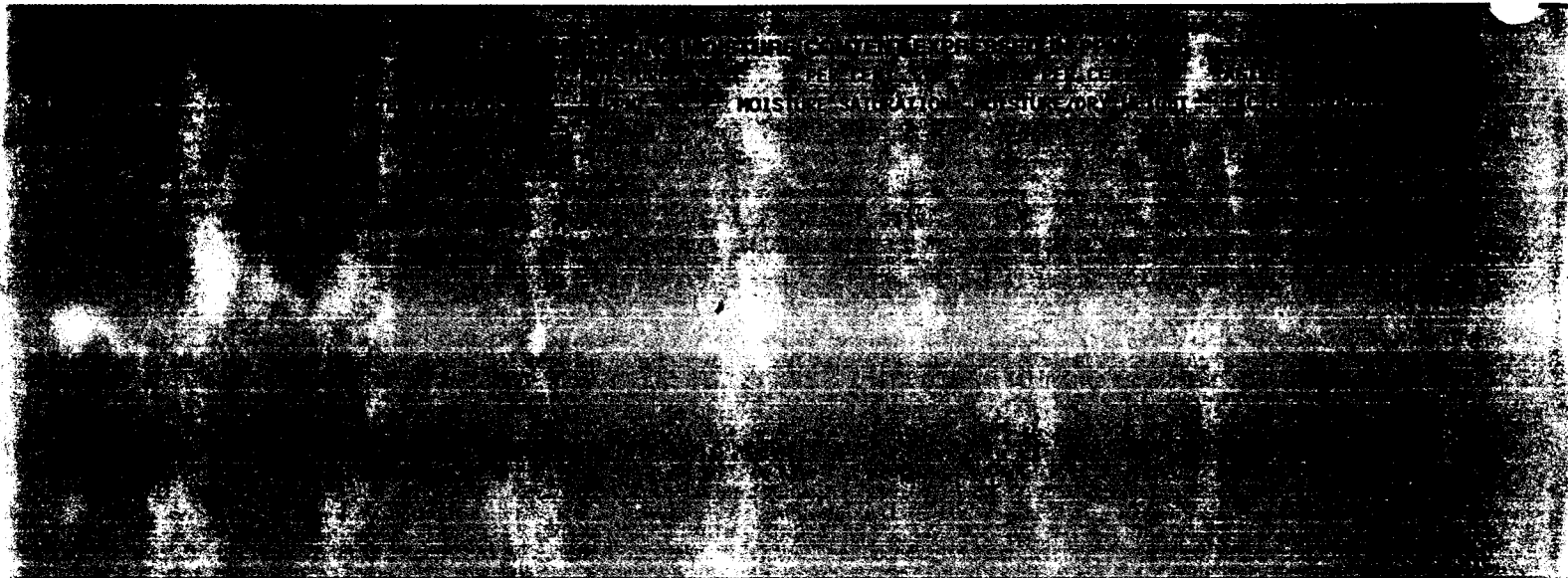
/N- 823756

GAL-

SECONDARY-

LOCATION-

INDOOR /



**GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	-------------------	-----------

\* THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF

\* IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**ICP METALS-IN-OIL EXPRESSED IN PPM**

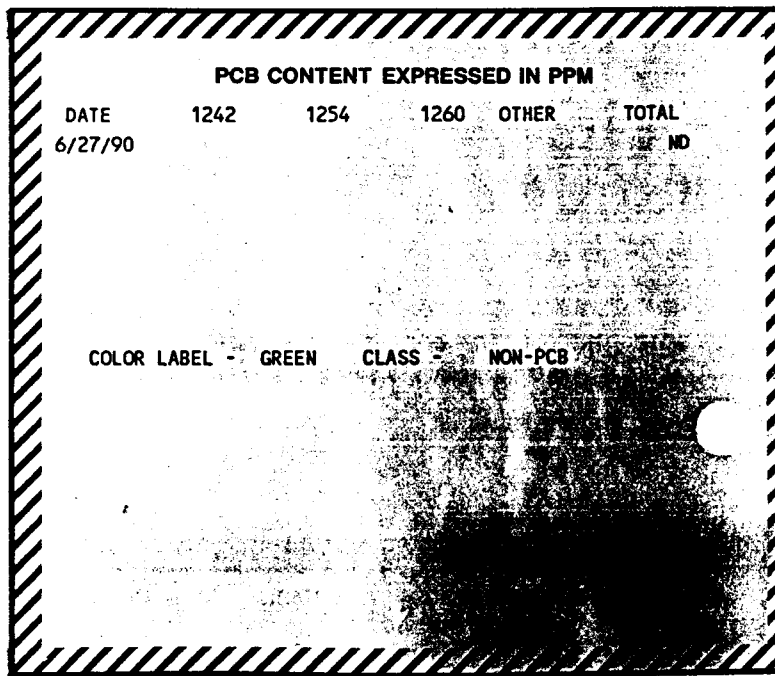
DATE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER
------	----------	------	------	--------	------	--------

\* A DISSOLVED METALS-IN-OIL TEST CAN BE MEANINGFUL IN EVALUATING  
\* IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**PCB CONTENT EXPRESSED IN PPM**

DATE	1242	1254	1260	OTHER	TOTAL
6/27/90					ND

COLOR LABEL - GREEN CLASS - NON-PCB





CUST-RAVENNA ARSENAL  
 SUB NAME-

CITY - RAVENNA OH  
 UNIT#- 18318

LOCATION- INDOOR /  
 OTHER -

**NAMEPLATE DATA**

MFG- EQUIP TYPE - TRANSFORMER  
 DATE MFG - TRANS CLASS -  
 S/N- 823756 IMPEDENCE -  
 KVA- PHASE/CYCLE -  
 PRI- LIQUID TYPE - OIL  
 SEC- GAL LIQUID -  
 WEIGHT- OTHER ACCESS -

**ADDITIONAL EQUIPMENT**

RADIATORS - CONSERVATOR-  
 FANS - LTC COMPARTMENT-  
 H2O COOLED - BUSHING LOC-  
 OIL PUMPS - FREE BREATHER-  
 TOP FPV - HOSE LENGTH-  
 BOTTOM FPV - SERVICE ON-LINE- YES  
 POWER AVAILABLE- NO

**VISUAL INSPECTION**

DATE LEVEL TEMP P/V PAINT LEAKS

**FIELD SERVICE**

DATE SERVICE  
 1/88 DEHYDRATE

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	ACID	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT
------	---------	------	-----	------	-------	---------	--------	----------

**INHIBITOR CONTENT**

DATE	% BY WEIGHT
------	-------------

NOTE - THE INHIBITOR CONTENT TEST IS USEFUL TO PREDICT THE AGING OF THE TRANSFORMER'S PAPER INSULATION SYSTEM.

**LIQUID POWER FACTOR**

DATE	25 C	100 C
------	------	-------

THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

ETO's 5764445  
 Eng# 58459/90 PCB TESTS

6-27-90  
 DATE SAMPLE COLLECTION

IN: \_\_\_\_\_  
 OUT: \_\_\_\_\_

NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	3088829	oil	ROP 2055	854	TRANS.	06229001		NR
2.	D-5009-144	oil	ROP 21178	854	TRANS.	06279001		ND
3.	D-5009-148	oil	ROP 21177	854	TRANS.	06279002		ND
4.	944326	oil	ROP 18420	854	TRANS.	06279003		ND
5.	UNKNOWN	oil	ROP 18828	854	TRANS.	06279004		ND
6.	UNK	oil	ROP 18922	854	TRANS.	06279005		1260=28
7.	D-5009-138	oil	ROP 21179	854	TRANS.	06279006		ND
8.	823756	oil	ROP 18318	854	TRANS.	06279007		ND
9.	823755	oil	ROP 18263	854	TRANS.	06279008		1260=2
10.	D-5009-141	oil	ROP 21250	854	TRANS.	06279009		ND
11.	D-5009-142	oil	ROP 21249	854	TRANS.	06279010		ND
12.	D-5009-149	oil	ROP 21251	854	TRANS.	06279011		ND

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S.D. Myers  
 LABORATORY ADDRESS P.O. BOX 4724  
AKRON, OHIO 44310-0575

002  
RAVENNA ARSENAL, INC.  
15:03  
08/07/90

WEST-RAVENNA ARSENAL

ID#- 00509400

DATE PRINTED 7/23/90

FIG- D-5009-149

KVA-

PRIMARY-

SUB NAME-

UNIT #-21251

S/N-

GAL-

SECONDARY-

LOCATION-

INDOOR /

**GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	-------------------	-----------

\* THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF

\* IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**ICP METALS-IN-OIL EXPRESSED IN PPM**

DATE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER
------	----------	------	------	--------	------	--------

A DISSOLVED METALS-IN-OIL TEST CAN BE MEANINGFUL IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**PCB CONTENT EXPRESSED IN PPM**

DATE	1242	1254	1260	OTHER	TOTAL
6/27/90					ND

COLOR LABEL - GREEN CLASS - NON-PCB

CUST-RAVENNA ARSENAL  
 SUB NAME-

CITY - RAVENNA OH  
 UNIT#- 21251

LOCATION- INDOOR /  
 OTHER -

**NAMEPLATE DATA**

MFG- D-5009-149  
 DATE MFG -  
 S/N-  
 KVA-  
 PRI-  
 SEC-  
 WEIGHT-  
 EQUIP TYPE - TRANSFORMER  
 TRANS CLASS -  
 IMPEDENCE -  
 PHASE/CYCLE -  
 LIQUID TYPE - OIL  
 GAL LIQUID -  
 OTHER ACCESS -

**ADDITIONAL EQUIPMENT**

RADIATORS -  
 FANS -  
 H2O COOLED -  
 OIL PUMPS -  
 TOP FPV -  
 BOTTOM FPV -  
 CONSERVATOR-  
 LTC COMPARTMENT-  
 BUSHING LOC-  
 FREE BREATHER-  
 HOSE LENGTH-  
 SERVICE ON-LINE- YES  
 POWER AVAILABLE- NO

**VISUAL INSPECTION**

DATE LEVEL TEMP P/V PAINT LEAKS

**FIELD SERVICE**

DATE SERVICE  
 1/88 DEHYDRATE

**LIQUID SCREEN TEST DATA**

DATE SERVICE ACID IFT DIEL COLOR SP. GR. VISUAL SEDIMENT

**INHIBITOR CONTENT**

DATE % BY WEIGHT

**LIQUID POWER FACTOR**

DATE 25 C 100 C

NOTE - THE INHIBITOR CONTENT TEST IS USEFUL TO PREDICT THE AGING OF THE TRANSFORMER'S PAPER INSULATION SYSTEM.

THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

ETOS - 57644+45  
 ENG 58+59-90  
P C B T E S T S

6-27-90  
 DATE SAMPLE COLLECTION

2 IN: \_\_\_\_\_  
 3 OUT: \_\_\_\_\_

002  
 -RAVENNA ARSENAL, INC.  
 15:08  
 08/07/90

NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (PPM)	REMARKS
1.	308829	oil	ROP 2055	854	TRANS.	06229001		NR
2.	D-5009-144	oil	ROP 21178	854	TRANS.	06279001		ND
3.	D-5009-148	oil	ROP 21177	854	TRANS.	06279002		ND
4.	944326	oil	ROP 18420	854	TRANS.	06279003		ND
5.	UNKNOWN	oil	ROP 18828	854	TRANS.	06279004		ND
6.	UNK	oil	ROP 18922	854	TRANS.	06279005		1260=28
7.	D-5009-138	oil	ROP 21179	854	TRANS.	06279006		ND
8.	823756	oil	ROP 18318	854	TRANS.	06279007		ND
9.	823755	oil	ROP 18263	854	TRANS.	06279008		1260=2
10.	D-5009-141	oil	ROP 21250	854	TRANS.	06279009		ND
11.	D-5009-142	oil	ROP 21249	854	TRANS.	06279010		ND
12.	D-5009-149	oil	ROP 21251	854	TRANS.	06279011		ND

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S.D. Myers  
 LABORATORY ADDRESS P.O. BOX 4724  
AKRON, OHIO 44310-0575

CUST-RAVENNA ARSENAL  
SUB NAME-

CITY - RAVENNA OH  
UNIT#- 18420

LOCATION- INDOOR /  
OTHER -

**NAMEPLATE DATA**

MFG- EQUIP TYPE - TRANSFORMER  
DATE MFG - TRANS CLASS -  
S/N- 944326 IMPEDENCE -  
KVA- PHASE/CYCLE -  
PRI- LIQUID TYPE - OIL  
SEC- GAL LIQUID -  
WEIGHT- OTHER ACCESS -

**ADDITIONAL EQUIPMENT**

RADIATORS - CONSERVATOR-  
FANS - LTC COMPARTMENT-  
H2O COOLED - BUSHING LOC-  
OIL PUMPS - FREE BREATHER-  
TOP FPV - HOSE LENGTH-  
BOTTOM FPV - SERVICE ON-LINE- YES  
POWER AVAILABLE- NO

**VISUAL INSPECTION**

DATE LEVEL TEMP P/V PAINT LEAKS

**FIELD SERVICE**

DATE SERVICE  
1/88 DEHYDRATE

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	ACID	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT
------	---------	------	-----	------	-------	---------	--------	----------

**INHIBITOR CONTENT**

DATE	% BY WEIGHT
------	-------------

**LIQUID POWER FACTOR**

DATE	25 C	100 C
------	------	-------

NOTE - THE INHIBITOR CONTENT TEST IS USEFUL TO PREDICT THE AGING OF THE TRANSFORMER'S PAPER INSULATION SYSTEM.

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CJST-RAVENNA ARSENAL

ID#- 00509400

DATE PRINTED 7/23/90

MFG-

KVA-

PRIMARY-

SUB NAME-

UNIT #-18420

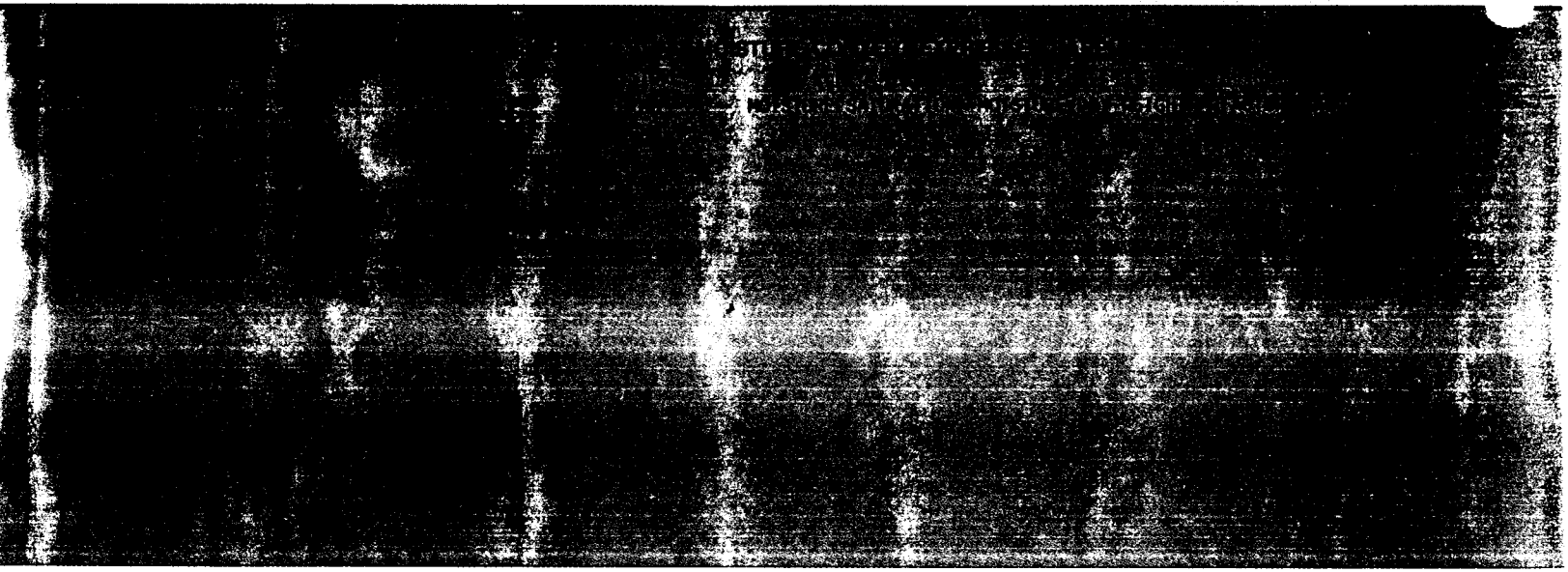
S/N- 944326

GAL-

SECONDARY-

LOCATION-

INDOOR /



**GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	COMBUSTIBLE	TOTAL GAS	TOTAL
------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	-------------	-----------	-------

\* THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF

\* IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**ICP METALS-IN-OIL EXPRESSED IN PPM**

DATE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER
------	----------	------	------	--------	------	--------

**PCB CONTENT EXPRESSED IN PPM**

DATE	1242	1254	1260	OTHER	TOTAL
6/27/90					ND

COLOR LABEL - GREEN CLASS - NON-PCB

\*A DISSOLVED METALS-IN-OIL TEST CAN BE MEANINGFUL IN EVALUATING  
\*IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

ETO's 57644445  
 Eng 58459-90 PCB TESTS

6-27-90  
 DATE SAMPLE COLLECTION

IN: \_\_\_\_\_  
 OUT: \_\_\_\_\_

002  
 -RAVENNA ARSENAL, INC. #  
 15:08  
 08/07/90

NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	3088829	oil	ROP 2055	854	TRANS.	06229001		NR
2.	D-5009-144	oil	ROP 21178	854	TRANS.	06279001		ND
3.	D-5009-148	oil	ROP 21177	854	TRANS.	06279002		ND
4.	944326	oil	ROP 18420	854	TRANS.	06279003		ND
5.	UNKNOWN	oil	ROP 18828	854	TRANS.	06279004		ND
6.	UNK	oil	ROP 18922	854	TRANS.	06279005		1260=28
7.	D-5009-138	oil	ROP 21179	854	TRANS.	06279006		ND
8.	823756	oil	ROP 18318	854	TRANS.	06279007		1260=2
9.	823755	oil	ROP 18263	854	TRANS.	06279008		ND
10.	D-5009-141	oil	ROP 21250	854	TRANS.	06279009		ND
11.	D-5009-142	oil	ROP 21249	854	TRANS.	06279010		ND
12.	D-5009-149	oil	ROP 21251	854	TRANS.	06279011		

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(B):

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S.D. Myers  
 LABORATORY ADDRESS P.O. BOX 4724  
AKRON, OHIO 44310-0575



CUST-RAVENNA ARSENAL

ID#- 00509400

DATE PRINTED 7/23/90

MFG-

KVA-

PRIMARY-

SUB NAME-

UNIT #-21250

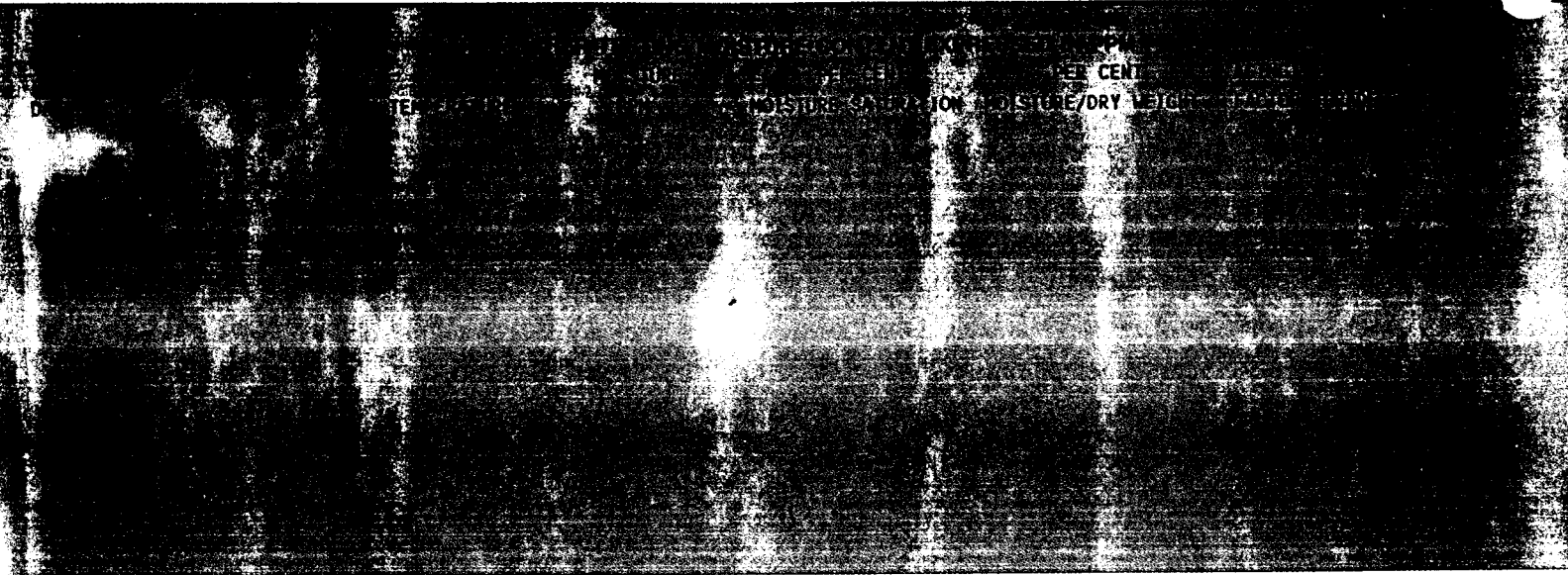
S/N- D-5009-141

GAL-

SECONDARY-

LOCATION-

INDOOR /



**GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	-------------------	-----------

\* THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF

\* IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**ICP METALS-IN-OIL EXPRESSED IN PPM**

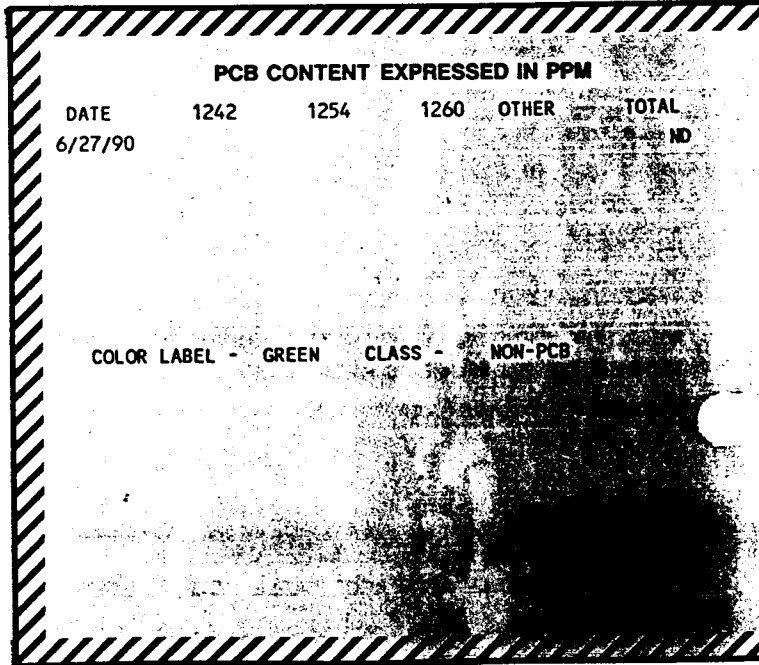
DATE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER
------	----------	------	------	--------	------	--------

\*A DISSOLVED METALS-IN-OIL TEST CAN BE MEANINGFUL IN EVALUATING  
\*IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**PCB CONTENT EXPRESSED IN PPM**

DATE	1242	1254	1260	OTHER	TOTAL
6/27/90					ND

COLOR LABEL - GREEN CLASS - NON-PCB



CUST-RAVENNA ARSENAL  
SUB NAME-

CITY - RAVENNA OH  
UNIT#- 21250

LOCATION- INDOOR /  
OTHER -

**NAMEPLATE DATA**

MFG- EQUIP TYPE - TRANSFORMER  
DATE MFG - TRANS CLASS -  
S/N- D-5009-141 IMPEDENCE -  
KVA- PHASE/CYCLE -  
PRI- LIQUID TYPE - OIL  
SEC- GAL LIQUID -  
WEIGHT- OTHER ACCESS -

**ADDITIONAL EQUIPMENT**

RADIATORS - CONSERVATOR-  
FANS - LTC COMPARTMENT-  
H2O COOLED - BUSHING LOC-  
OIL PUMPS - FREE BREATHER-  
TOP FPV - HOSE LENGTH-  
BOTTOM FPV - SERVICE ON-LINE- YES  
POWER AVAILABLE- NO

**VISUAL INSPECTION**

DATE LEVEL TEMP P/V PAINT LEAKS

**FIELD SERVICE**

DATE SERVICE  
1/88 DEHYDRATE

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	ACID	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT
------	---------	------	-----	------	-------	---------	--------	----------

**INHIBITOR CONTENT**

DATE	% BY WEIGHT
------	-------------

NOTE - THE INHIBITOR CONTENT TEST IS USEFUL TO PREDICT THE AGING OF THE TRANSFORMER'S PAPER INSULATION SYSTEM.

**LIQUID POWER FACTOR**

DATE	25 C	100 C
------	------	-------

THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

ETOS 59644-45  
 Eng 58459-90 PCB TESTS

6-27-90  
 DATE SAMPLE COLLECTION

IN: \_\_\_\_\_  
 OUT: \_\_\_\_\_

08/07/90 15:08 -RAVENNA ARSENAL, INC. # 002

NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	3088829	oil	ROP 2055	854	TRANS.	06229001		NR ND
2.	D-5009-144	oil	ROP 21178	854	TRANS.	06279001		ND
3.	D-5009-148	oil	ROP 21177	854	TRANS.	06279002		ND
4.	944326	oil	ROP 18420	854	TRANS.	06279003		ND
5.	UNKNOWN	oil	ROP 18828	854	TRANS.	06279004		1260-28
6.	UNK	oil	ROP 18922	854	TRANS.	06279005		ND
7.	D-5009-138	oil	ROP 21179	854	TRANS.	06279006		ND
8.	823756	oil	ROP 18318	854	TRANS.	06279007		1260-2
9.	823755	oil	ROP 18263	854	TRANS.	06279008		ND
10.	D-5009-141	oil	ROP 21250	854	TRANS.	06279009		ND
11.	D-5009-142	oil	ROP 21249	854	TRANS.	06279010		ND
12.	D-5009-149	oil	ROP 21251	854	TRANS.	06279011		

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(b):

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S.D. Myers  
 LABORATORY ADDRESS P.O. BOX 4724  
AKRON, OHIO 44310-0575

JUST-RAVENNA ARSENAL

ID#- 00509400

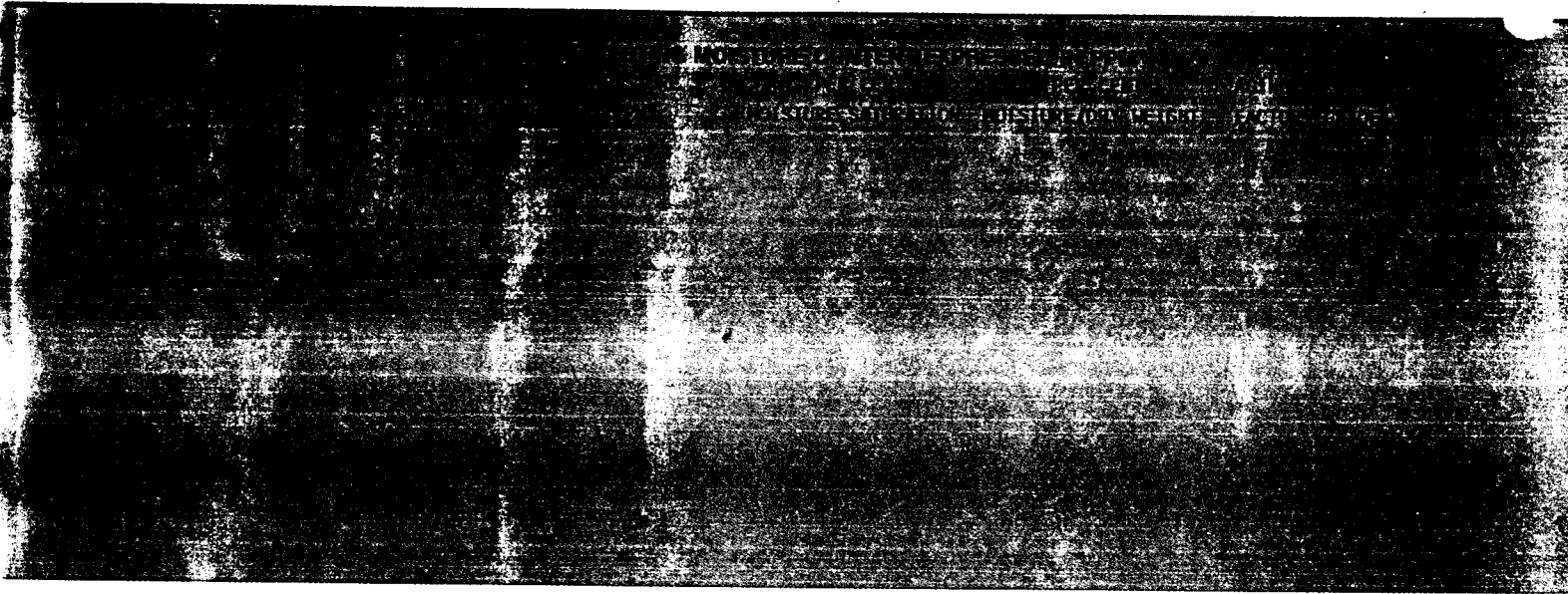
DATE PRINTED 7/23/90

MFG- KVA-  
S/N- D-5009-142 GAL-

PRIMARY-  
SECONDARY-

SUB NAME-  
LOCATION- INDOOR /

UNIT #-21249



**GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	-------------------	-----------

\* THIS TEST IS AN INVALUABLE TOOL USED TO EVALUATE THE OPERATION OF

\* IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**ICP METALS-IN-OIL EXPRESSED IN PPM**

DATE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER
------	----------	------	------	--------	------	--------

A DISSOLVED METALS-IN-OIL TEST CAN BE MEANINGFUL IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**PCB CONTENT EXPRESSED IN PPM**

DATE	1242	1254	1260	OTHER	TOTAL
6/27/90					ND

COLOR LABEL - GREEN CLASS - NON-PCB

CUST-RAVENNA ARSENAL  
SUB NAME-

CITY - RAVENNA OH  
UNIT#- 21249

LOCATION- INDOOR /  
OTHER -

**NAMEPLATE DATA**

MFG- EQUIP TYPE - TRANSFORMER  
DATE MFG - TRANS CLASS -  
S/N- D-5009-142 IMPEDENCE -  
KVA- PHASE/CYCLE -  
PRI- LIQUID TYPE - OIL  
SEC- GAL LIQUID -  
WEIGHT- OTHER ACCESS -

**ADDITIONAL EQUIPMENT**

RADIATORS -  
FANS -  
H2O COOLED -  
OIL PUMPS -  
TOP FPV -  
BOTTOM FPV -  
CONSERVATOR-  
LTC COMPARTMENT-  
BUSHING LOC-  
FREE BREATHER-  
HOSE LENGTH-  
SERVICE ON-LINE- YES  
POWER AVAILABLE- NO

**VISUAL INSPECTION**

DATE LEVEL TEMP P/V PAINT LEAKS

**FIELD SERVICE**

DATE SERVICE  
1/88 DEHYDRATE

**LIQUID SCREEN TEST DATA**

DATE SERVICE ACID IFT DIELECTRIC COLOR SP. GR. VISUAL SEDIMENT

**INHIBITOR CONTENT**

DATE % BY WEIGHT

NOTE - THE INHIBITOR CONTENT TEST IS USEFUL TO PREDICT THE AGING OF THE TRANSFORMER'S PAPER INSULATION SYSTEM.

**LIQUID POWER FACTOR**

DATE 25 C 100 C

THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

ETO557644-45 PCB TESTS

6-27-90  
DATE SAMPLE COLLECTION

IN: \_\_\_\_\_

OUT: \_\_\_\_\_

Eng 58459-90

PCB  
CONC.  
(PPM)

NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	REMARKS
1.	3088829	oil	ROP 2055	854	TRANS.	06229001	NR ND
2.	D-5009-144	oil	ROP 21178	854	TRANS.	06279001	ND
3.	D-5009-148	oil	ROP 21177	854	TRANS.	06279002	ND
4.	944326	oil	ROP 18420	854	TRANS.	06279003	ND
5.	UNKNOWN	oil	ROP 18828	854	TRANS.	06279004	ND
6.	UNK	oil	ROP 18922	854	TRANS.	06279005	1260=28 ND
7.	D-5009-138	oil	ROP 21179	854	TRANS.	06279006	ND
8.	823756	oil	ROP 18318	854	TRANS.	06279007	1260-2 ND
9.	823755	oil	ROP 18263	854	TRANS.	06279008	ND
10.	D-5009-141	oil	ROP 21250	854	TRANS.	06279009	ND
11.	D-5009-142	oil	ROP 21249	854	TRANS.	06279010	ND
12.	D-5009-149	oil	ROP 21251	854	TRANS.	06279011	ND

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(b):

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S.D. Myers  
 LABORATORY ADDRESS P.O. BOX 4724  
AKRON, OHIO 44310-0575

RAVENNA ARSENAL, INC.

5:08

08/07/90

CUST-RAVENNA ARSENAL

CITY - RAVENNA OH

LOCATION- INDOOR /

SUB NAME-

UNIT#- 21179

OTHER -

**NAMEPLATE DATA**

**ADDITIONAL EQUIPMENT**

MFG- D-5009-139      EQUIP TYPE - TRANSFORMER  
DATE MFG -            TRANS CLASS -  
S/N-                    IMPEDENCE -  
KVA-                    PHASE/CYCLE -  
PRI-                    LIQUID TYPE - OIL  
SEC-                    GAL LIQUID -  
WEIGHT-                OTHER ACCESS -

RADIATORS -            CONSERVATOR-  
FANS -                    LTC COMPARTMENT-  
H2O COOLED -          BUSHING LOC-  
OIL PUMPS -            FREE BREATHER-  
TOP FPV -                HOSE LENGTH-  
BOTTOM FPV -          SERVICE ON-LINE- YES  
POWER AVAILABLE- NO

**VISUAL INSPECTION**

**FIELD SERVICE**

DATE    LEVEL    TEMP    P/V PAINT LEAKS

DATE  
1/88

SERVICE  
DEHYDRATE

**LIQUID SCREEN TEST DATA**

DATE    SERVICE    ACID    IFT    DIELECTRIC    COLOR    SP. GR.    VISUAL    SEDIMENT

**INHIBITOR CONTENT**

DATE                    % BY WEIGHT

**LIQUID POWER FACTOR**

DATE                    25 C                    100 C

NOTE - THE INHIBITOR CONTENT TEST IS USEFUL TO PREDICT THE AGING OF THE TRANSFORMER'S PAPER INSULATION SYSTEM.

THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

CUST-RAVENNA ARSENAL

ID#- 00509400

DATE PRINTED 7/23/90

MFG- D-5009-139

KVA-

PRIMARY-

SUB NAME-

UNIT #-21179

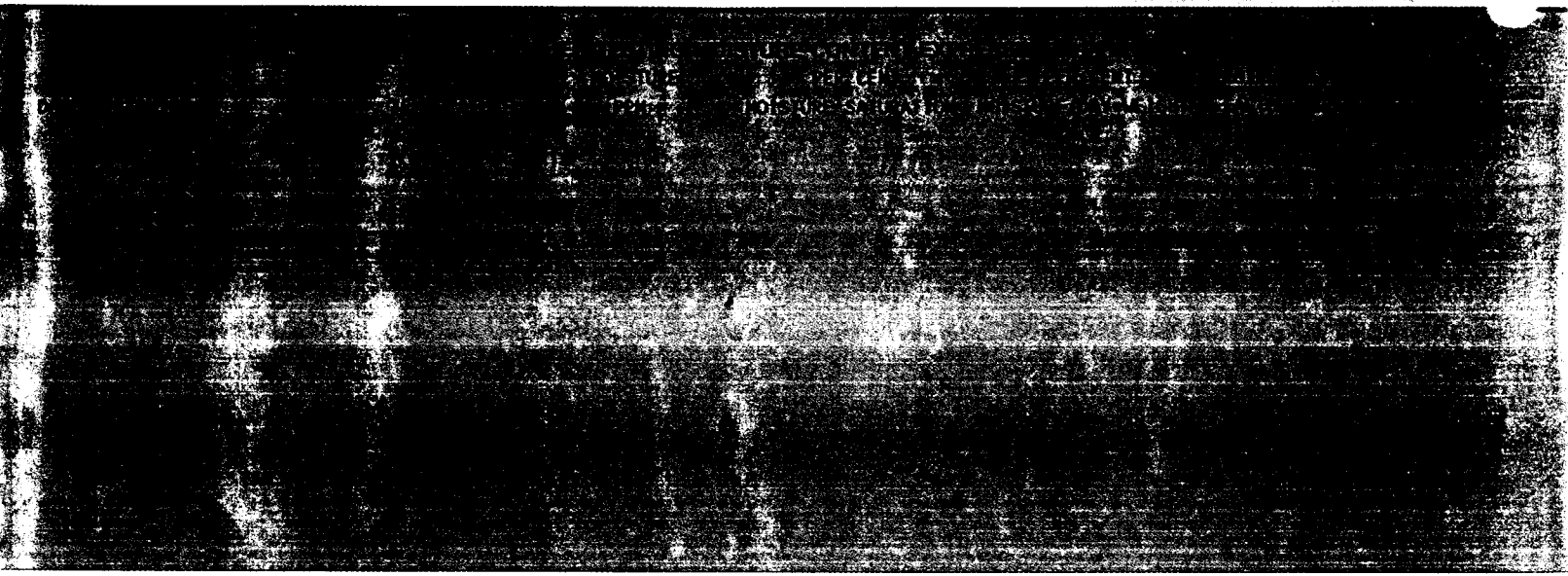
S/N-

GAL-

SECONDARY-

LOCATION-

INDOOR /



**GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	COMBUSTIBLE	TOTAL GAS
------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	-------------	-----------

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\* IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**ICP METALS-IN-OIL EXPRESSED IN PPM**

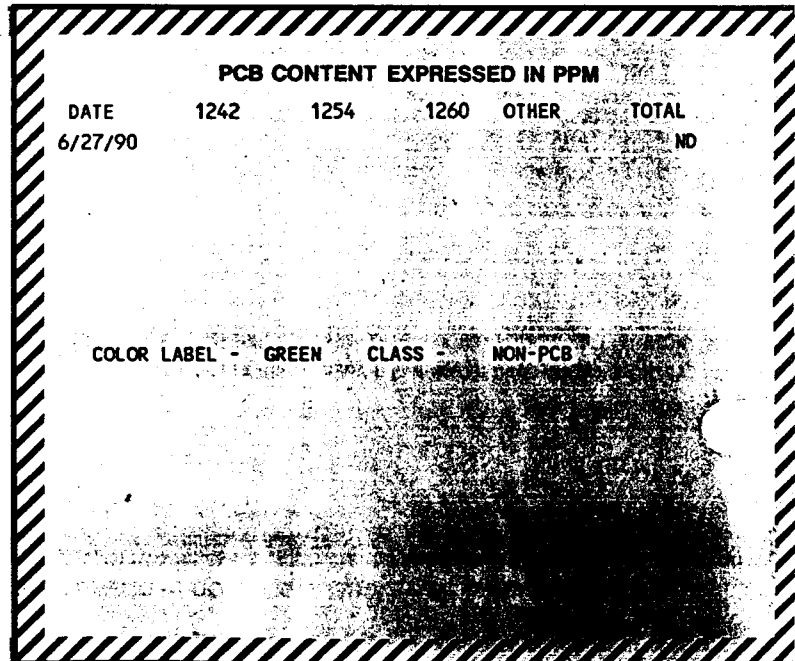
DATE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER
------	----------	------	------	--------	------	--------

**PCB CONTENT EXPRESSED IN PPM**

DATE	1242	1254	1260	OTHER	TOTAL
6/27/90					ND

COLOR LABEL - GREEN CLASS NON-PCB

\*A DISSOLVED METALS-IN-OIL TEST CAN BE MEANINGFUL IN EVALUATING  
\*IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.





ETO'S - 57644 & 45  
 ENR-#s 58459-90 P C B T E S T S

6-27-90  
 DATE SAMPLE COLLECTION

RAVENNA ARSENAL, INC.

15:08

08/07/90

NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	3088829	oil	ROP 2055	854	TRANS.	06229001		NR ND
2.	D-5009-144	oil	ROP 21178	854	TRANS.	06279001		ND
3.	D-5009-148	oil	ROP 21177	854	TRANS.	06279002		ND
4.	944326	oil	ROP 18420	854	TRANS.	06279003		ND
5.	UNKNOWN	oil	ROP 18828	854	TRANS.	06279004		ND
6.	UNK	oil	ROP 18922	854	TRANS.	06279005		1260=28 ND
7.	D-5009-138	oil	ROP 21179	854	TRANS.	06279006		ND
8.	823756	oil	ROP 18318	854	TRANS.	06279007		1260=2 ND
9.	823755	oil	ROP 18263	854	TRANS.	06279008		ND
10.	D-5009-141	oil	ROP 21250	854	TRANS.	06279009		ND
11.	D-5009-142	oil	ROP 21249	854	TRANS.	06279010		ND
12.	D-5009-148	oil	ROP 21251	854	TRANS.	06279011		

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(B):

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S.D. Myers  
 LABORATORY ADDRESS P.O. BOX 4724  
AKRON, OHIO 44310-0575

CUST-RAVENNA ARSENAL  
SUB NAME-

CITY - RAVENNA OH  
UNIT#- 21178

LOCATION- INDOOR /  
OTHER -

**NAMEPLATE DATA**

MFG- EQUIP TYPE - TRANSFORMER  
DATE MFG - TRANS CLASS -  
S/N- D-5009-144 IMPEDENCE -  
KVA- PHASE/CYCLE -  
PRI- LIQUID TYPE - OIL  
SEC- GAL LIQUID -  
WEIGHT- OTHER ACCESS -

**ADDITIONAL EQUIPMENT**

RADIATORS - CONSERVATOR-  
FANS - LTC COMPARTMENT-  
H2O COOLED - BUSHING LOC-  
OIL PUMPS - FREE BREATHER-  
TOP FPV - HOSE LENGTH-  
BOTTOM FPV - SERVICE ON-LINE- YES  
POWER AVAILABLE- NO

**VISUAL INSPECTION**

DATE LEVEL TEMP P/V PAINT LEAKS

**FIELD SERVICE**

DATE SERVICE  
1/88 DEHYDRATE

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	ACID	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT
------	---------	------	-----	------	-------	---------	--------	----------

**INHIBITOR CONTENT**

DATE	% BY WEIGHT
------	-------------

**LIQUID POWER FACTOR**

DATE	25 C	100 C
------	------	-------

NOTE - THE INHIBITOR CONTENT TEST IS USEFUL TO PREDICT THE AGING OF THE TRANSFORMER'S PAPER INSULATION SYSTEM.

THE POWER FACTOR OF THE OIL AT 25 AND 100 DEGREES CELSIUS IS A VERY MEANINGFUL TEST IN EVALUATING IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

DIST-RAVENNA ARSENAL

ID#- 00509400

DATE PRINTED 7/23/90

KVA-

PRIMARY-

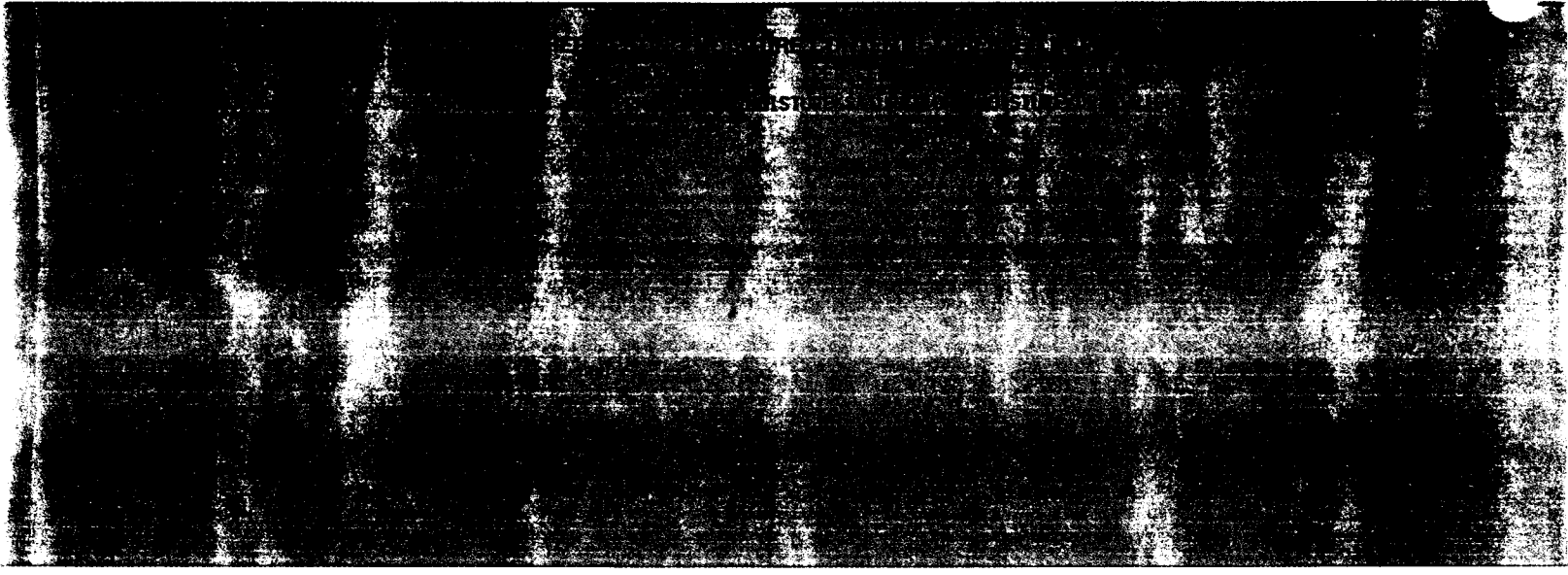
SUB NAME-

UNIT #-21178

S/N- D-5009-144 GAL-

SECONDARY-

LOCATION- INDOOR /



**GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	-------------------	-----------

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\* IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**ICP METALS-IN-OIL EXPRESSED IN PPM**

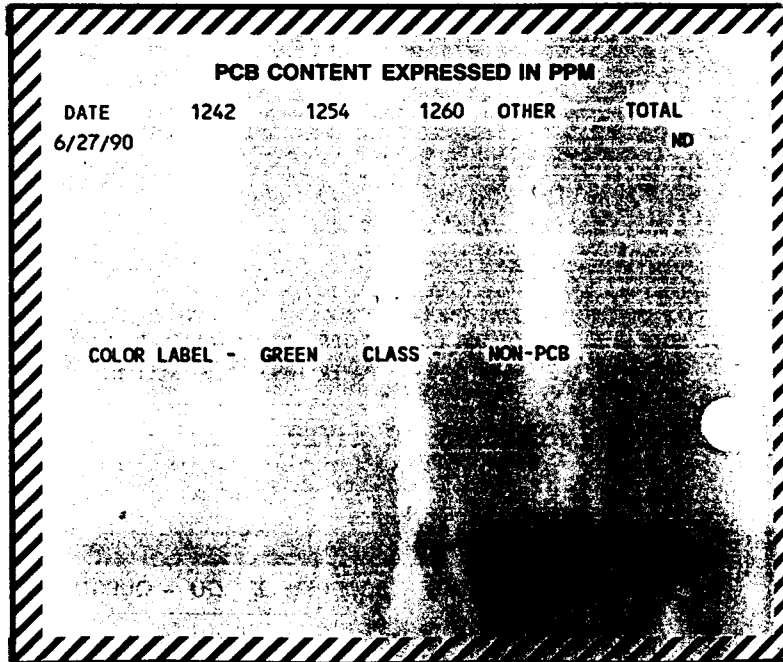
DATE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER
------	----------	------	------	--------	------	--------

\*A DISSOLVED METALS-IN-OIL TEST CAN BE MEANINGFUL IN EVALUATING  
\*IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**PCB CONTENT EXPRESSED IN PPM**

DATE	1242	1254	1260	OTHER	TOTAL
6/27/90					ND

COLOR LABEL - GREEN CLASS NON-PCB



6-27-90

DATE SAMPLE COLLECTION

IN: \_\_\_\_\_  
OUT: \_\_\_\_\_

Emp # 58759-90 PCB TESTS  
ETOS - 57644745

002  
RAVENNA ARSENAL, INC.  
15:08  
06/07/90

NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (PPM)	REMARKS
1.	3088829	oil	ROP 2055	854	TRANS.	06229001		NR ND
2.	D-5009-144	oil	ROP 21178	854	TRANS.	06279001		ND
3.	D-5009-148	oil	ROP 21177	854	TRANS.	06279002		ND
4.	944326	oil	ROP 18420	854	TRANS.	06279003		ND
5.	UNKNOWN	oil	ROP 18828	854	TRANS.	06279004		ND
6.	UNK	oil	ROP 18922	854	TRANS.	06279005		1260=28 ND
7.	D-5009-138	oil	ROP 21179	854	TRANS.	06279006		ND
8.	823756	oil	ROP 18318	854	TRANS.	06279007		1260=2 ND
9.	823755	oil	ROP 18263	854	TRANS.	06279008		ND
10.	D-5009-141	oil	ROP 21250	854	TRANS.	06279009		ND
11.	D-5009-142	oil	ROP 21249	854	TRANS.	06279010		ND
12.	D-5009-149	oil	ROP 21251	854	TRANS.	06279011		

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AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S.D. Myers  
 LABORATORY ADDRESS P.O. BOX 4724  
AKRON, OHIO 44310-0575

CUST-RAVENNA ARSENAL  
 SUB NAME-

CITY - RAVENNA OH  
 UNIT#- 21177

LOCATION- INDOOR /  
 OTHER -

**NAMEPLATE DATA**

MFG- EQUIP TYPE - TRANSFORMER  
 DATE MFG - TRANS CLASS -  
 S/N- D-5009-148 IMPEDENCE -  
 KVA- PHASE/CYCLE -  
 PRI- LIQUID TYPE - OIL  
 SEC- GAL LIQUID -  
 WEIGHT- OTHER ACCESS -

**ADDITIONAL EQUIPMENT**

RADIATORS - CONSERVATOR-  
 FANS - LTC COMPARTMENT-  
 H2O COOLED - BUSHING LOC-  
 OIL PUMPS - FREE BREATHER-  
 TOP FPV - HOSE LENGTH-  
 BOTTOM FPV - SERVICE ON-LINE- YES  
 POWER AVAILABLE- NO

**VISUAL INSPECTION**

DATE LEVEL TEMP P/V PAINT LEAKS

**FIELD SERVICE**

DATE SERVICE  
 1/88 DEHYDRATE

**LIQUID SCREEN TEST DATA**

DATE	SERVICE	ACID	IFT	DIEL	COLOR	SP. GR.	VISUAL	SEDIMENT
------	---------	------	-----	------	-------	---------	--------	----------

**INHIBITOR CONTENT**

DATE	% BY WEIGHT
------	-------------

**LIQUID POWER FACTOR**

DATE	25 C	100 C
------	------	-------

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JUST-RAVENNA ARSENAL

ID#- 00509400

DATE PRINTED 7/23/90

#FG- KVA-

PRIMARY-

SUB NAME-

UNIT #-21177

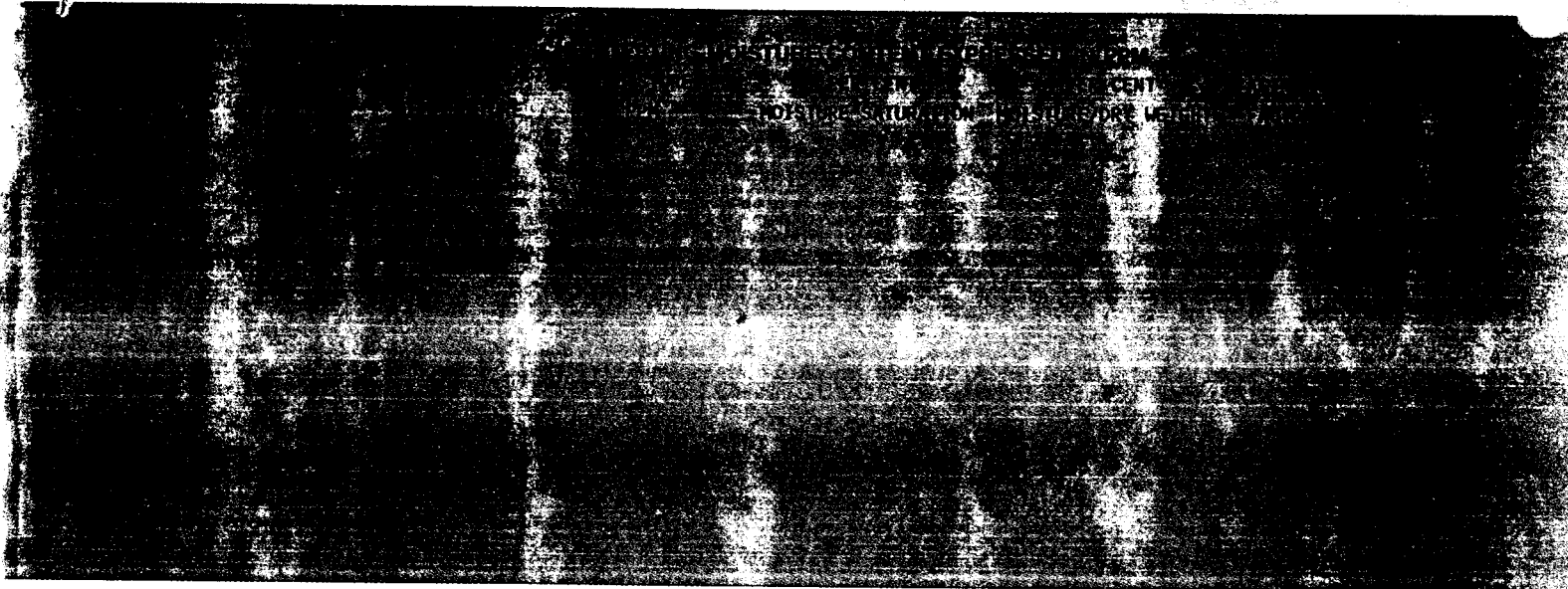
/N- D-009-148

GAL-

SECONDARY-

LOCATION-

INDOOR /



**GAS-IN-OIL ANALYSIS GAS CHROMATOGRAPHY EXPRESSED IN PPM**

DATE	HYDROGEN	OXYGEN	NITROGEN	METHANE	CARBON MONOXIDE	CARBON DIOXIDE	ETHANE	ETHYLENE	ACETYLENE	TOTAL COMBUSTIBLE	TOTAL GAS
------	----------	--------	----------	---------	-----------------	----------------	--------	----------	-----------	-------------------	-----------

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- \* IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**ICP METALS-IN-OIL EXPRESSED IN PPM**

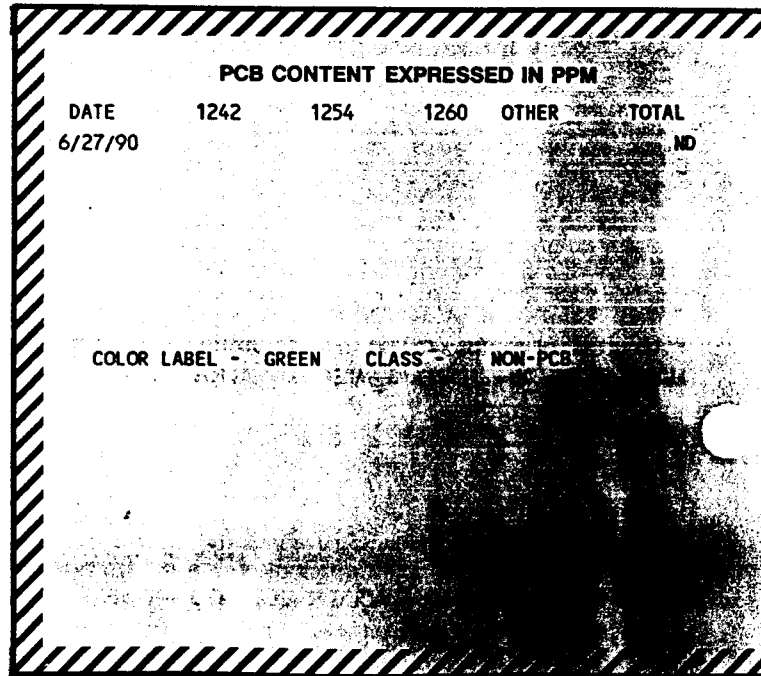
DATE	ALUMINUM	IRON	ZINC	COPPER	LEAD	SILVER
------	----------	------	------	--------	------	--------

- \*A DISSOLVED METALS-IN-OIL TEST CAN BE MEANINGFUL IN EVALUATING
- \*IN-SERVICE AND SERVICE-AGED TRANSFORMERS FOR MAX-LIFE RESULTS.

**PCB CONTENT EXPRESSED IN PPM**

DATE	1242	1254	1260	OTHER	TOTAL
6/27/90					ND

COLOR LABEL - GREEN CLASS - NON-PCB



cf: DAN DUTTON  
P.O. 20106

Solomon Corporation  
Post Office Box 245  
Solomon, Kansas 67480



Wats Line (800) 234-2867  
Telephone (913) 655-2191  
FAX (913) 655-2502

*"The Performance Transformer Company"*

This transformer was certified Non-PCB prior to repair and has been refilled with PCB-Free (0 ppm) new oil. Enclosed is the test results of your transformer prior to remanufacturing.

INVOICE NO. 21069

LAB ID # 96530

KVA 15

VOLTAGE 4160Y/2400 - 208Y/120

SERIAL NO. 4590SC1

S. J. JENKINS  
JUN 5 1990

cc: Dan Dutton

PCB TEST RESULTS

CUSTOMER # 84103

TEST DATE 04/10/90

P.O. # 6288-MH1

PAGE 1 of 2

Solomon Electric Supply  
 P.O. Box 245  
 Solomon, KS 67480

Contact: Diane Jordan  
 Phone #: (800)234-2867

Laboratory Id #	Customer Sample #	Sample Type	PCB Type	PCB Results
96190	8118	0		< 2.00 ppm
96200	8119	0		< 2.00 ppm
96210	8120	0		< 2.00 ppm
96220	8121	0		< 2.00 ppm
96230	8122	0		< 2.00 ppm
96240	8123	0		< 2.00 ppm
96250	8124	0		< 2.00 ppm
96260	8125	0		< 2.00 ppm
96270	8126	0		< 2.00 ppm
96280	8127	0		< 2.00 ppm
96290	8128	0	1260+1242	29.00 ppm
96300	8129	0		< 2.00 ppm
96310	8130	0		< 2.00 ppm
96320	8131	0		< 2.00 ppm
96330	8132	0	1260	6.40 ppm
96340	8133	0		< 2.00 ppm
96350	8134	0	1260	17.96 ppm
96360	8135	0		< 2.00 ppm
96370	8136	0		< 2.00 ppm
96380	8137	0		< 2.00 ppm
96390	8138	0		< 2.00 ppm
96400	8139	0		< 2.00 ppm
96410	8140	0		< 2.00 ppm
96420	8141	0		< 2.00 ppm
96430	8142	0		< 2.00 ppm
96440	8143	0		< 2.00 ppm
96450	8144	0		< 2.00 ppm
96460	8145	0		< 2.00 ppm
96470	8146	0		< 2.00 ppm
96480	8147	0		< 2.00 ppm
96490	8148	0		< 2.00 ppm
96500	8149	0		< 2.00 ppm
96510	8150	0		< 2.00 ppm
96520	8151	0		< 2.00 ppm
Ravenna, OH 96530	8152	S/N 4590SC1	0	< 2.00 ppm
96540	8153		0	< 2.00 ppm
96550	8154		0	< 2.00 ppm

0 Oil OS Oil Sludge  
 W Water  
 D Solids  
 S Swab/Wipe  
 A Air

*Scott Popper*  
 Chemist  
 Trinity Environmental  
 316/328-3222



PURCHASE ORDER  
**RAVENNA ARSENAL, INC**

20106

P.O. NO. \_\_\_\_\_  
 This Number and Shipper's Name Must  
 Appear on All Shipments & Papers Re-  
 lating To This Order.

8451 STATE ROUTE-5  
 RAVENNA, OHIO 44266-9297  
 (216) 358-7111

CONTRACT NO. DAAA09-88-Z-0001

RELEASE NO. \_\_\_\_\_

DO NOT OVERSHIP - OVERSHIPMENTS  
 WILL BE RETURNED

DATE	4-4-90	TERMS	NET 30	F.O.B.	
------	--------	-------	--------	--------	--

SHIP VIA	TRUCK	PER YOUR QUOTATION	PHONE	ACCT. NO.	27-2553; 2270-7520
----------	-------	--------------------	-------	-----------	--------------------

OS100X

TO SOLOMON CORP.  
 P. O. BOX 245  
 SOLOMON, KS 67480

SHIP TO BLDG: 1035  
 F/DUTTON - 1035

APR 10 1990

M/F P.O. 20106

ITEM	QUANTITY	UNIT	DESCRIPTION	PRICE	
				UNIT	TOTAL
1.	1.	EA	TRANSFORMER, TYPE RW, IMP 2.3, 15 KVA, 3-PHASE, 60 HZ PRIMARY 4160/2300, SECONDARY 220-208/120 TO REPLACE ROP k8437 (SN 291354) NOTE: A CERTIFIED LETTER ON ALL DIELECTRIC OIL MUST ACCOMPANY TRANSFORMER, STATING THAT ALL FLUID USED IS FREE OF PCB CONTAMINATION.  CONFIRMING/PHONE/BRYAN KROEKER/4-4-90 DO NOT DUPLICATE PROMISED: 4-9-90 ENG/BJJ/vp DELIVERY REQUIRED _____ 4-9-90 _____ TOTAL	<del>13.95</del> 1395.00	<del>13.95</del> 1395.  1395.00 <del>\$ 13.95</del>

*B. J. Johnson*

~~XXXXXXXXXX~~  
 ADMINISTRATOR

Item	Date	R. & I. No.	Qty. Rec'd.	Total to Date	No. Pkg.	Trans.Charge	Carrier	Pro. No.	Rec. Point
1.	4/9/90	90779	1 EA	1	1		VENDOR		1035/IT
	PO CONSIDERED COMPLETE								

original to Ben Dalton  
9-18-89



Post Office Box 245  
Solomon, Kansas 67480

Wats Line (800) 234-2867  
Telephone (913) 655-2191

"The Complete Transformer Company"

These transformers were certified Non-PCB prior to rebuilding and have been refilled with PCB-Free (0 ppm) new oil. Enclosed are the test results of your transformers prior to remanufacturing.

INVOICE NO. 18544

LAB ID # 14800  
KVA 15  
VOLTAGE 4160Y/2400 - 208Y/120  
SERIAL NUMBER 8889SM1

LAB ID # \_\_\_\_\_  
KVA \_\_\_\_\_  
VOLTAGE \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_

LAB ID # 14810  
KVA 15  
VOLTAGE 4160Y/2400 - 208Y/120  
SERIAL NUMBER 81189SM1

LAB ID # \_\_\_\_\_  
KVA \_\_\_\_\_  
VOLTAGE \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_

LAB ID # \_\_\_\_\_  
KVA \_\_\_\_\_  
VOLTAGE \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_

LAB ID # \_\_\_\_\_  
KVA \_\_\_\_\_  
VOLTAGE \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_

LAB ID # \_\_\_\_\_  
KVA \_\_\_\_\_  
VOLTAGE \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_

LAB ID # \_\_\_\_\_  
KVA \_\_\_\_\_  
VOLTAGE \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_

cf: DAN DUTTON  
P.O. 20106

Solomon Corporation  
Post Office Box 245  
Solomon, Kansas 67480



Wats Line (800) 234-2867  
Telephone (913) 655-2191  
FAX (913) 655-2502

*"The Performance Transformer Company"*

This transformer was certified Non-PCB prior to repair and has been refilled with PCB-Free (0 ppm) new oil. Enclosed is the test results of your transformer prior to remanufacturing.

INVOICE NO. 21069

LAB ID # 96530

KVA 15

VOLTAGE 4160Y/2400 - 208Y/120

SERIAL NO. 4590SC1

3. J. JENKINS  
JUN 5 1990

cc: Dan Dutton

PCB TEST RESULTS

CUSTOMER # 84103

TEST DATE 04/10/90

P.O. # 6288-MH1

PAGE 1 of 2

Solomon Electric Supply  
P.O. Box 245  
Solomon, KS 67480

Contact: Diane Jordan  
Phone #: (800)234-2867

Laboratory Id #	Customer Sample #	Sample Type	PCB Type	PCB Results
	96190	8118	0	< 2.00 ppm
	96200	8119	0	< 2.00 ppm
	96210	8120	0	< 2.00 ppm
	96220	8121	0	< 2.00 ppm
	96230	8122	0	< 2.00 ppm
	96240	8123	0	< 2.00 ppm
	96250	8124	0	< 2.00 ppm
	96260	8125	0	< 2.00 ppm
	96270	8126	0	< 2.00 ppm
	96280	8127	0	< 2.00 ppm
	96290	8128	0	1260+1242 29.00 ppm
	96300	8129	0	< 2.00 ppm
	96310	8130	0	< 2.00 ppm
	96320	8131	0	< 2.00 ppm
	96330	8132	0	1260 6.40 ppm
	96340	8133	0	< 2.00 ppm
	96350	8134	0	1260 17.96 ppm
	96360	8135	0	< 2.00 ppm
	96370	8136	0	< 2.00 ppm
	96380	8137	0	< 2.00 ppm
	96390	8138	0	< 2.00 ppm
	96400	8139	0	< 2.00 ppm
	96410	8140	0	< 2.00 ppm
	96420	8141	0	< 2.00 ppm
	96430	8142	0	< 2.00 ppm
	96440	8143	0	< 2.00 ppm
	96450	8144	0	< 2.00 ppm
	96460	8145	0	< 2.00 ppm
	96470	8146	0	< 2.00 ppm
	96480	8147	0	< 2.00 ppm
	96490	8148	0	< 2.00 ppm
	96500	8149	0	< 2.00 ppm
	96510	8150	0	< 2.00 ppm
	96520	8151	0	< 2.00 ppm
Ravenna, OH	96530	8152	S/N 4590SC1	< 2.00 ppm
	96540	8153	0	< 2.00 ppm
	96550	8154	0	< 2.00 ppm

O Oil                      OS Oil Sludge  
W Water  
D Solids  
S Swab/Wipe  
A Air

*Scott Popper*  
Chemist  
Trinity Environmental  
316/328-3222

2

"B"

# RAVENNA ARSENAL, INC

8451 STATE ROUTE-5  
 RAVENNA, OHIO 44266-9297  
 (216) 358-7111

P.O. NO. \_\_\_\_\_  
 This Number and Shipper's Name Must  
 Appear on All Shipments & Papers Rela-  
 ting To This Order.

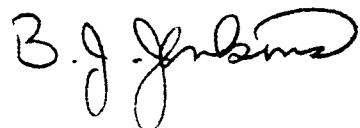
DO NOT OVERSHIP - OVERSHIPMENTS  
 WILL BE RETURNED

CONTRACT NO. DAAA09-88-Z-0001

RELEASE NO. \_\_\_\_\_

DATE	4-4-90	TERMS	NET 30	F.O.B.	
SHIP VIA	TRUCK	PER YOUR QUOTATION	PHONE	ACCT. NO.	27-2553; 2270-7520
OS100X					
TO	SOLOMON CORP. P. O. BOX 245 SOLOMON, KS 67480			SHIP TO BLDG: 1035 F/DUTTON - 1035	
		APR 10 1990		M/F	P.O. 20106

ITEM	QUANTITY	UNIT	DESCRIPTION	PRICE	
				UNIT	TOTAL
1.	1.	EA	TRANSFORMER, TYPE RW, IMP 2.3, 15 KVA, 3-PHASE, 60 HZ PRIMARY 4160/2300, SECONDARY 220-208/120  TO REPLACE ROP k8437 (SN 291354)  NOTE: A CERTIFIED LETTER ON ALL DIELECTRIC OIL MUST ACCOMPANY TRANSFORMER, STATING THAT ALL FLUID USED IS FREE OF PCB CONTAMINATION.  CONFIRMING/PHONE/BRYAN KROEKER/4-4-90 <u>DO NOT DUPLICATE</u> PROMISED: 4-9-90 ENG/BJJ/vp  DELIVERY REQUIRED 4-9-90	<del>13.95</del> 1395.00	<del>13.95</del> 1395.00         1395.00 \$ 13.95
			TOTAL		



**XMAS CO. BUYER**  
**ADMINISTRATOR**

Item	Date	R. & I. No.	Qty. Rec'd.	Total to Date	No. Pkg.	Trans. Charge	Carrier	Pro. No.	Rec. Point
1.	4/9/90	90779	1 EA	1	1		VENDOR		1035/IT
PO CONSIDERED COMPLETE									

RA-21 THESE SIGNATURES APPLY ONLY TO LATEST RECEIPT SHOWN ABOVE

INSPECTED BY \_\_\_\_\_ RECEIVED BY \_\_\_\_\_

# RAVENNA ARSENAL, INC

20106

P.O. NO. \_\_\_\_\_  
 This Number and Shipper's Name Must Appear on All Shipments & Papers Relating To This Order.

8451 STATE ROUTE-5  
 RAVENNA, OHIO 44266-9297  
 (216) 358-7111

CONTRACT NO. DAAA09-88-Z-0001

RELEASE NO. \_\_\_\_\_

DO NOT OVERSHIP — OVERSHIPMENTS WILL BE RETURNED

DATE 4-4-90 TERMS NET 30 F.O.B. \_\_\_\_\_

SHIP VIA TRUCK PER YOUR QUOTATION PHONE ACCT. NO. 27-2553; 2270-7520

OS100X

TO SOLOMON CORP.  
 P. O. BOX 245  
 SOLOMON, KS 67480

SHIP TO BLDG: 1035  
 F/DUTTON - 1035

APR 10 1990

M/F P.O. 20106

ITEM	QUANTITY	UNIT	DESCRIPTION	PRICE	
				UNIT	TOTAL
1.	1.	EA	TRANSFORMER, TYPE RW, IMP 2.3, 15 KVA, 3-PHASE, 60 HZ PRIMARY 4160/2300, SECONDARY 220-208/120  TO REPLACE ROP k8437 (SN 291354)  NOTE: A CERTIFIED LETTER ON ALL DIELECTRIC OIL MUST ACCOMPANY TRANSFORMER, STATING THAT ALL FLUID USED IS FREE OF PCB CONTAMINATION.  CONFIRMING/PHONE/BRYAN KROEKER/4-4-90 DO NOT DUPLICATE PROMISED: 4-9-90 ENG/BJJ/vp  DELIVERY REQUIRED 4-9-90	<del>13.95</del> 1395.00	<del>13.95</del> 1395.00
			TOTAL		1395.00 <del>\$13.95</del>

*B. J. Johnson*

~~XXXXXXXXXX~~  
 ADMINISTRATOR

Item	Date	R. & I. No.	Qty. Rec'd.	Total to Date	No. Pkg.	Trans. Charge	Carrier	Pro. No.	Rec. Point
1.	4/9/90	90779	1 EA	1	1		VENDOR		1035/IT
PO CONSIDERED COMPLETE									

Original to Dan Shelton  
9-18-89



Post Office Box 245  
Solomon, Kansas 67480

Wats Line (800) 234-2867  
Telephone (913) 655-2191

*"The Complete Transformer Company"*

These transformers were certified Non-PCB prior to rebuilding and have been refilled with PCB-Free (0 ppm) new oil. Enclosed are the test results of your transformers prior to remanufacturing.

INVOICE NO. 18544

LAB ID # 14800  
KVA 15  
VOLTAGE 4160Y/2400 - 208Y/120  
SERIAL NUMBER 8889SM1

LAB ID # \_\_\_\_\_  
KVA \_\_\_\_\_  
VOLTAGE \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_

LAB ID # 14810  
KVA 15  
VOLTAGE 4160Y/2400 - 208Y/120  
SERIAL NUMBER 81189SM1

LAB ID # \_\_\_\_\_  
KVA \_\_\_\_\_  
VOLTAGE \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_

LAB ID # \_\_\_\_\_  
KVA \_\_\_\_\_  
VOLTAGE \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_

LAB ID # \_\_\_\_\_  
KVA \_\_\_\_\_  
VOLTAGE \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_

LAB ID # \_\_\_\_\_  
KVA \_\_\_\_\_  
VOLTAGE \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_

LAB ID # \_\_\_\_\_  
KVA \_\_\_\_\_  
VOLTAGE \_\_\_\_\_  
SERIAL NUMBER \_\_\_\_\_

P C B T E S T S

DATE SAMPLE CO. 5-16-91

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

<u>ITEM NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
1.	6648601	Oil	ROP 18559	854	Transformer	05159001	203 @ 1260	
2.	3112488	"	ROP 18561	854	"	05159002	13 @ 1260	
3.	13338	"	ROP 18560	854	"	05159003	ND	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S. D. Myers, Inc.  
 LABORATORY ADDRESS 180 South Ave., Tallmadge, OH  
44278



P C B T E S T S

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTED

<u>ITEM NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
1.	6648601	Oil	ROP 18559	854	Transformer	05159001	203 @ 1260	
2.	3112488	"	ROP 18561	854	"	05159002	13 @ 1260	
3.	13338	"	ROP 18560	854	"	05159003	ND	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

44278

P C B T E S T S

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

<u>ITEM</u> <u>NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG.</u>	<u>LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB</u> <u>CONC.</u> <u>(ppm)</u>	<u>REMARKS</u>
1.	291354	Oil	ROP 18437	854		Transformer	04029001	ND	

Detection limit is 2 ppm.

ND = None Detected

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

MAINTENANCE

3 2 1990

AM

8:30 AM

AUTHORIZED SIGNATURE

*David P. Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

44278

P C B T E S T S

PURCHASE ORDER #20105

3-30-90

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

<u>ITEM NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BUILDING LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
1.	291357	Oil	18428	854	Transformer	03309008	ND	

Detection limit is 2 ppm.

ND = None Detected

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE

*David P. Myers*

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH

44278

P.O.

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

P C B T E S T S

PURCHASE ORDER 20109

03-26-90

DATE SAMPLE COLLECTION

<u>ITEM</u> <u>NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC.</u> <u>(ppm)</u>	<u>REMARKS</u>
1.	Weld Shop	Quenching oil	none	1035		03269001	213 @ 1254	

**RECEIVED**

MANUFACTURING DEPT.

APR 30 1990

AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE David P. Myers  
TYPED NAME David P. Myers  
TITLE Laboratory Manager  
LABORATORY NAME S. D. Myers, Inc.  
LABORATORY ADDRESS 180 South Ave., Tallmadge, OH  
44278

P C B T E S T S

P.O. 20424

5-11-90

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	299720	Oil	2048	854	Transformer	05119001	ND	

Detection limit is 2 ppm.

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S. D. Myers, Inc.  
 LABORATORY ADDRESS 180 South Ave., Tallmadge, OH  
44278

P C B T E S T S

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM NO.	I.D. NO.	ITEM DRUM 'W'	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1	Weld Shop	Quenching oil	none	1035		03269001	213 @ 1254	

**RECEIVED**

MANUFACTURING DEPT.

NOV 30 1990

AM 7 8 9 10 11 12 1 2 3 4 5 6 PM

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S. D. Myers, Inc.  
 LABORATORY ADDRESS 180 South Ave., Tallmadge, OH  
44278

P C B T E S T S

DATE SAMPLE COLLECTION

TICKETS TIME OUT

PCB CONC. (ppm)

REMARKS

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	3089981	011	18351	854	Transformer	03159001	8 @ 1254	
2.	6715071	011	<del>18385</del>	854	Transformer	03159002	472 @ 1260	
3.	6717019	011	18277	854	Transformer	03159003	85 @ 1260	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

AUTHORIZED SIGNATURE David P. Myers  
 TYPED NAME David P. Myers  
 TITLE Laboratory Manager  
 LABORATORY NAME S. D. Myers, Inc.  
 LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

P C B T E S T S

3-15-90

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

<u>ITEM NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
1.	3089981	Oil	18351	854	Transformer	03159001	8 @ 1254	
2.	6715071	Oil	18285	854	Transformer	03159002	472 @ 1260	
3.	6717019	Oil	18277	854	Transformer	03159003	85 @ 1260	

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE David P. Myers

TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH



TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

PCB ANALYSIS

DATE SAMPLE COLLECTION \_\_\_\_\_

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	6717017	oil	18306	854	Transformer	03149001	92 @ 1260	
2.	6717021	oil	18290	854	Transformer	03149002	79 @ 1260	
3.	none	oil	ROP-18432	854	Transformer	03149003	6 @ 1254	
4.	285305	oil	ROP-6704	854	Transformer	03149004	ND	

Detection limit is 2 ppm.

ND - None Detected

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

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TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge, OH 44278

TIME IN: \_\_\_\_\_

P C B T E S T S

DATE SAMPLE COLLECTION \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM SERIAL NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	6717017	oil	18306	854	Transformer	03149001	92 @ 1260	
2.	6717021	oil	18290	854	Transformer	03149002	79 @ 1260	
3.	none	oil	ROP-18432	854	Transformer	03149003	6 @ 1254	
4.	285305	oil	ROP-6704	854	Transformer	03149004	ND	

Detection Limit is 2 ppm.

ND - None Detected

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 LABORATORY NAME S. D. Myers, Inc.  
 LABORATORY ADDRESS 180 South Ave., Tallmadge, OH  
44278

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

P C B T E S T S

DATE SAMPLE COLLECTION \_\_\_\_\_

<u>ITEM NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB CONC. (ppm)</u>	<u>REMARKS</u>
1.	6717017	Oil	18306	854	Transformer	03149001	92 @ 1260	
2.	6717021	Oil	18290	854	Transformer	03149002	79 @ 1260	
3.	none	Oil	ROP-18432	854	Transformer	03149003	6 @ 1254	
4.	285305	Oil	ROP-6704	854	Transformer	03149004	ND	

Detection limit is 2 ppm.

ND - None Detected

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TIME OUT: \_\_\_\_\_

DATE SAMPLE COLLECTION

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	PCB CONC. (ppm)	REMARKS
1.	6717017	OIL	18306	854	Transformer	03149001	92 @ 1260	
2.	6717021	OIL	18290	854	Transformer	03149002	79 @ 1260	
3.	none	OIL	ROP-18432	854	Transformer	03149003	6 @ 1254	
4.	285305	OIL	ROP-6704	854	Transformer	03149004	ND	

Detection limit is 2 ppm.

ND - None Detected

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44278

ITEM NO.	I.D. NO.	ITEM	PLANT NO.	BLDG. LOCATION	SYSTEM	LAB I.D. NO.	CONC. (ppm)	REMARKS
1.	287020	oil	ROP-6756	854	TRANSFORMER	03129001	ND	
2.	2983361	oil	ROP-18304	854	TRANSFORMER	03129002	31 @ 1260	
3.	624810	oil	15902	854	TRANSFORMER	03129003	92 @ 1260	

Detection limits is 2 ppm.

ND - None Detected

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

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44278

P C B T E S T S

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_  
TIME OUT: \_\_\_\_\_

<u>ITEM</u> <u>NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB</u> <u>CONC.</u> <u>(ppm)</u>	<u>REMARKS</u>
1.	287020	011	ROP-6756	854	TRANSFORMER	03129001	ND	
2.	2983361	011	ROP-18304	854	TRANSFORMER	03129002	31 @ 1260	
3.	624810	011	<del>15902</del>	854	TRANSFORMER	03129003	92 @ 1260	

Detection limits is 2 ppm.

ND - None Detected

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g).

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44278

02507400

C32090

# DIVISION OF **ED Myers** TRANSFORMER CONSULTANTS

SO # 01-2929

DATE \_\_\_\_\_

P.O. BOX 4724, AKRON, OHIO 44310, PHONE (216) 633-2666  
Out of State Call Toll-Free 800-321-9580

Client Ravenna Arsenal

Contact Don Dufford

Street \_\_\_\_\_

Phone ~~633-2666~~ 35

City Ravenna State OH Zip \_\_\_\_\_

1-297-3107 NO. SAMPLES 11 PCB  
1-297-3117 DATE RECEIVED 3-28-90

## POLYCHLOROBIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

Equipment Manufacturer Serial Number	Assigned Label Color	Parts Per Million of Arochlor				Total
		1242	1254	1260	Other	
TC# 9030 (DRUM 'W') new customer			<del>124</del>			<del>124</del>
9031				92		92
9032				47 <sup>31/30</sup>		47 <sup>31/30</sup>
9033						ND
9034				85		85
9035			8			8
9036				472		472
9037				79		79
9038			6			6
9039						ND
9040				92		92

Comments: N.D. - NONE DETECTED

DM 3/29/90  
Lab Technician / Date Tested

Ronita K. Calvin 4/4/90  
Quality Control Engineer / Date Approved

P C B T E S T S

DATE SAMPLE COLLECTION

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

<u>ITEM</u> <u>NO.</u>	<u>I.D. NO.</u>	<u>ITEM</u>	<u>PLANT NO.</u>	<u>BLDG. LOCATION</u>	<u>SYSTEM</u>	<u>LAB I.D. NO.</u>	<u>PCB</u> <u>CONC.</u> <u>(ppm)</u>	<u>REMARKS</u>
<del>1</del>		DRUM "W" 9030 MACHINE OIL		none		03089001		

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE \_\_\_\_\_

TYPED NAME \_\_\_\_\_

TITLE \_\_\_\_\_

LABORATORY NAME \_\_\_\_\_

LABORATORY ADDRESS \_\_\_\_\_



8/3/89

P C B T E S T S

DATE SAMPLE COLLECTED

TIME IN: \_\_\_\_\_

TIME OUT: \_\_\_\_\_

ITEM  
~~REP~~ NO.

I.D. NO.

ITEM

PLANT NO.

BLDG. LOCATION

SYSTEM

LAB I.D. NO.

PCB  
CONC.  
(ppm)

REMARKS

1	S/N 291356	TRANSFORMER	ROP-18427	854		8308901	ND
---	------------	-------------	-----------	-----	--	---------	----

Detection limit is 2 ppm

**RECEIVED**  
 MAINTENANCE DEPT.  
 OCT - 5 1989 PM  
 319 10 11 21 12 13 14 15 16

I CERTIFY THAT THE P.C.B. CONCENTRATIONS SHOWN ABOVE ARE TRUE RESULTS OF LABORATORY ANALYSES AS DETERMINED IN ACCORDANCE WITH METHODS PRESCRIBED IN TITLE 40 CFR 761.10(g):

AUTHORIZED SIGNATURE David P. Myers

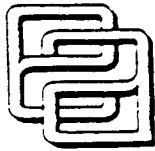
TYPED NAME David P. Myers

TITLE Laboratory Manager

LABORATORY NAME S. D. Myers, Inc.

LABORATORY ADDRESS 180 South Ave., Tallmadge

OH 44278



# ELECTRO-ANALYTICAL, INC.

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Bradenton, FL 34209  
(813) 795-2785

November 1, 1988

Mr. Martin Kelly  
Electro Power Management  
472 Greenmount  
Canfield, OH 44406

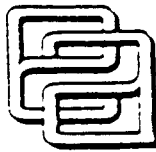
RE: 88-138, RAV/NIL

E.A.I. Project #88-8167  
Date Tested: 9/15/88

Chromatographic analysis for PCB content of 17 oil samples

Accuracy: Plus or minus 10%  
Detection Limit: 1 PPM

Sample ID	S/N	Ref. #	TA9*	Aroclor Type	PPM	ENg.
RAV 998801	290278	60902T	Pa.D-2836	NONE DETECTED*		37-88
RAV 998802	4781	60903T	No TA9	NONE DETECTED*		37-88
RAV 998803	6565275	60904T	No TA9	1260	191	38-88
RAV 998804	6691757	60905T	ROP-18918	1260	68	"
RAV 998805	3130155	60906T	ROP-18571	1260	57	"
RAV 998806	6290690	60907T	ROP-18441	1260	154	"
RAV 998807		60908T		1260	60	
RAV 998808	6290630	60909T	ROP-18450	1260	22	37-88
RAV 998809	ROP 18901 ✓	60910T		1260	104	
RAV 998810	ROP 18902 ✓	60911T		1260	66	
RAV 998811	ROP 18903 ✓	60912T		1260	99	
RAV 998812	825095	60913T	ROP-18380	1260	3	37-88
RAV 998813		60914T		NONE DETECTED*		
RAV 998814	3130414	60915T	ROP-18905	1260	43	37-88
RAV 998815		60916T		1260	10	



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RE: 88-138, RAV/NIL

E.A.I. Project #88-8167  
Date Tested: 9/15/88

Chromatographic analysis for PCB content of 17 oil samples

Accuracy: Plus or minus 10%  
Detection Limit: 1 PPM

Sample ID	S/N	Ref. #	TA9*	Analyzer Type	PPM	EN9 -
RAV 998801	290278	60902T	Pa.D-2836	NONE DETECTED*		37-88
RAV 998802	4781	60903T	No TA9	NONE DETECTED*		37-88
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RAV 998808	6290630	60909T	ROP-18450	1260	22	37-88
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RAV 998812	825095	60913T	ROP-18380	1260	3	37-88
RAV 998813		60914T		NONE DETECTED*		
RAV 998814	3130414	60915T	ROP-18905	1260	43	37-88
RAV 998815		60916T		1260	10	



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November 1, 1988

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Canfield, OH 44406

RE: 88-138, RAV/NIL

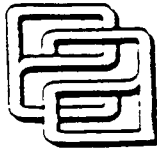
E.A.I. Project #88-8167  
Date Tested: 9/15/88

Chromatographic analysis for PCB content of 17 oil samples

Accuracy:  
Detection Limit:

Plus or minus 10%  
1 PPM

Sample ID	S/N	Ref. #	TA9*	Analyzer Type	PPM	EN9 -
RAV 998801	290278	60902T	Pa.D-2836	NONE DETECTED*		37-88
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RAV 998811	ROP 18903 ✓	60912T		1260	99	
RAV 998812	825095	60913T	ROP-18380	1260	3	37-88
RAV 998813		60914T		NONE DETECTED*		
RAV 998814	3130414	60915T	ROP-18905	1260	43	37-88
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November 1, 1988

Mr. Martin Kelly  
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Canfield, OH 44406

RE: 88-138, RAV/NIL

E.A.I. Project #88-8167  
Date Tested: 9/15/88

Chromatographic analysis for PCB content of 17 oil samples

Accuracy:  
Detection Limit:

Plus or minus 10%  
1 PPM

Sample ID	S/N	Ref. #	TA9*	Analyzer Type	PPM	EN9 -
RAV 998801	290278	60902T	Pa.D-2836	NONE DETECTED*		37-88
RAV 998802	4781	60903T	No TA9	NONE DETECTED*		37-88
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RAV 998811	ROP 18903 ✓	60912T		1260	99	
RAV 998812	825095	60913T	ROP-18380	1260	3	37-88
RAV 998813		60914T		NONE DETECTED*		
RAV 998814	3130414	60915T	ROP-18905	1260	43	37-88
RAV 998815		60916T		1260	10	



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November 1, 1988

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472 Greenmount  
Canfield, OH 44406

RE: 88-138, RAV/NIL

E.A.I. Project #88-8167  
Date Tested: 9/15/88

Chromatographic analysis for PCB content of 17 oil samples

Accuracy: Plus or minus 10%  
Detection Limit: 1 PPM

Sample ID	S/N	Ref. #	TA9*	Aroclor Type	PPM	EN9 -
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November 1, 1988

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Canfield, OH 44406

RE: 88-138, RAV/NIL

E.A.I. Project #88-8167  
Date Tested: 9/15/88

Chromatographic analysis for PCB content of 17 oil samples

Accuracy:  
Detection Limit:

Plus or minus 10%  
1 PPM

<u>Sample ID</u>	<u>S/N</u>	<u>Ref. #</u>	<u>TA9*</u>	<u>Aroclor Type</u>	<u>PPM</u>	<u>EN9 -</u>
RAV 998801	290278	60902T	Pa.D-2836	NONE DETECTED*		37-88
RAV 998802	4781	60903T	No TA9	NONE DETECTED*		37-88
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RAV 998813		60914T		NONE DETECTED*		
RAV 998814	3130414	60915T	ROP-18905	1260	43	37-88
RAV 998815		60916T		1260	10	



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November 1, 1988

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RE: 88-138, RAV/NIL

E.A.I. Project #88-8167  
Date Tested: 9/15/88

Chromatographic analysis for PCB content of 17 oil samples

Accuracy:  
Detection Limit:

Plus or minus 10%  
1 PPM

<u>Sample ID</u>	<u>S/N</u>	<u>Ref. #</u>	<u>TA9*</u>	<u>Analyzer Type</u>	<u>PPM</u>	<u>EN9 -</u>
RAV 998801	290278	60902T	Pa.D-2836	NONE DETECTED*		37-88
RAV 998802	4781	60903T	No TA9	NONE DETECTED*		37-88
RAV 998803	6565275	60904T	No TA9	1260	191	38-88
RAV 998804	6691757	60905T	ROP-18918	1260	68	"
RAV 998805	3130155	60906T	ROP-18571	1260	57	"
RAV 998806	6290690	60907T	ROP-18441	1260	154	"
RAV 998807		60908T		1260	60	
RAV 998808	6290630	60909T	ROP-18450	1260	22	37-88
RAV 998809	ROP 18901 ✓	60910T		1260	104	
RAV 998810	ROP 18902 ✓	60911T		1260	66	
RAV 998811	ROP 18903 ✓	60912T		1260	99	
RAV 998812	825095	60913T	ROP-18380	1260	3	37-88
RAV 998813		60914T		NONE DETECTED*		
RAV 998814	3130414	60915T	ROP-18905	1260	43	37-88
RAV 998815		60916T		1260	10	





# ELECTRO-ANALYTICAL, INC.

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7118 Industrial Park Blvd.  
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(216) 351-3514  
Fax (216) 351-3774

Chicago Branch  
715 Lake St., Suite 702  
Oak Park, IL 60301  
(312) 348-4662

Florida Branch  
516 84th Street, N.W.  
Bradenton, FL 34209  
(813) 793-2785

November 1, 1988

Mr. Martin Kelly  
Electro Power Management  
472 Greenmount  
Canfield, OH 44406

RE: 88-138, RAV/NIL

E.A.I. Project #88-8167  
Date Tested: 9/15/88

Chromatographic analysis for PCB content of 17 oil samples

Accuracy: Plus or minus 10%  
Detection Limit: 1 PPM

<u>Sample ID</u>	<u>S/N</u>	<u>Ref. #</u>	<u>TA9*</u>	<u>Arochlor Type</u>	<u>PPM</u>	<u>EN9 -</u>
RAV 998801	290278	60902T	Pa.D-2836	NONE DETECTED*		37-88
RAV 998802	4781	60903T	No TA9	NONE DETECTED*		37-88
RAV 998803	6565275	60904T	No TA9	1260	191	38-88
RAV 998804	6691757	60905T	ROP-18918	1260	68	"
RAV 998805	3130155	60906T	ROP-18571	1260	57	"
RAV 998806	6290690	60907T	ROP-18441	1260	154	"
RAV 998807		60908T		1260	60	
RAV 998808	6290630	60909T	ROP-18450	1260	22	37-88
RAV 998809	-ROP 18901 ✓	60910T		1260	104	
RAV 998810	ROP 18902 ✓	60911T		1260	66	
RAV 998811	ROP 18903 ✓	60912T		1260	99	
RAV 998812	825095	60913T	ROP-18380	1260	3	37-88
RAV 998813		60914T		NONE DETECTED*		
RAV 998814	3130414	60915T	ROP-18905	1260	43	37-88
RAV 998815		60916T		1260	10	



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November 1, 1988

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Canfield, OH 44406

RE: 88-138, RAV/NIL

E.A.I. Project #88-8167  
Date Tested: 9/15/88

Chromatographic analysis for PCB content of 17 oil samples

Accuracy: Plus or minus 10%  
Detection Limit: 1 PPM

Sample ID	S/N	Ref. #	TA9*	Analyzer Type	PPM	EN9 -
RAV 998801	290278	60902T	POD-2836	NONE DETECTED*		37-88
RAV 998802	4781	60903T	No TA9	NONE DETECTED*		37-88
RAV 998803	6565275	60904T	No TA9	1260	191	38-88
RAV 998804	6691757	60905T	ROP-18918	1260	68	"
RAV 998805	3130155	60906T	ROP-18571	1260	57	"
RAV 998806	6290690	60907T	ROP-18441	1260	154	"
RAV 998807		60908T		1260	60	
RAV 998808	6290630	60909T	ROP-18450	1260	22	37-88
RAV 998809	-ROP 18901 ✓	60910T		1260	104	
RAV 998810	ROP 18902 ✓	60911T		1260	66	
RAV 998811	ROP 18903 ✓	60912T		1260	99	
RAV 998812	825095	60913T	ROP-18380	1260	3	37-88
RAV 998813		60914T		NONE DETECTED*		
RAV 998814	3130414	60915T	ROP-18905	1260	43	37-88
RAV 998815		60916T		1260	10	



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November 1, 1988

Mr. Martin Kelly  
Electro Power Management  
472 Greenmount  
Canfield, OH 44406

RE: 88-138, RAV/NIL

E.A.I. Project #88-8167  
Date Tested: 9/15/88

Chromatographic analysis for PCB content of 17 oil samples

Accuracy: Plus or minus 10%  
Detection Limit: 1 PPM

Sample ID	S/N	Ref. #	TA9*	Aroclor Type	PPM	EN9 -
RAV 998801	290278	60902T	RoD-2836	NONE DETECTED*		37-88
RAV 998802	4781	60903T	No TA9	NONE DETECTED*		37-88
RAV 998803	6565275	60904T	No TA9	1260	191	38-88
RAV 998804	6691757	60905T	RoP-18918	1260	68	"
RAV 998805	3130155	60906T	RoP-18571	1260	57	"
RAV 998806	6290690	60907T	RoP-18441	1260	154	"
RAV 998807		60908T		1260	60	
RAV 998808	6290630	60909T	RoP-18450	1260	22	37-88
RAV 998809	-RoP 18901 ✓	60910T		1260	104	
RAV 998810	RoP 18902 ✓	60911T		1260	66	
RAV 998811	RoP 18903 ✓	60912T		1260	99	
RAV 998812	825095	60913T	RoP-18380	1260	3	37-88
RAV 998813		60914T		NONE DETECTED*		
RAV 998814	3130414	60915T	RoP-18905	1260	43	37-88
RAV 998815		60916T		1260	10	



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516 84th Street, N.W.  
Brentwood, FL 34209  
(813) 793-2783

November 1, 1988

Mr. Martin Kelly  
Electro Power Management  
472 Greenmount  
Canfield, OH 44406

RE: 88-138, RAV/NIL

E.A.I. Project #88-8167  
Date Tested: 9/15/88

Chromatographic analysis for PCB content of 17 oil samples

Accuracy:  
Detection Limit:

Plus or minus 10%  
1 PPM

Sample ID	S/N	Ref. #	TA9*	Aroclor Type	PPM	EN9 -
RAV 998801	290278	60902T	Pa.D-2836	NONE DETECTED*		37-88
RAV 998802	4781	60903T	No TA9	NONE DETECTED*		37-88
RAV 998803	6565275	60904T	No TA9	1260	191	38-88
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RAV 998806	6290690	60907T	ROP-18441	1260	154	"
RAV 998807		60908T		1260	60	
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RAV 998809	-ROP 18901 ✓	60910T		1260	104	
RAV 998810	ROP 18902 ✓	60911T		1260	66	
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RAV 998812	825095	60913T	ROP-18380	1260	3	37-88
RAV 998813		60914T		NONE DETECTED*		
RAV 998814	3130414	60915T	ROP-18905	1260	43	37-88
RAV 998815		60916T		1260	10	

2

"B"

# PURCHASE ORDER RAVENNA ARSENAL, INC

8451 STATE ROUTE-5  
RAVENNA, OHIO 44266-9297  
(216) 358-7111

CONTRACT NO. DAAA09-88-Z-0001

P.O. NO. 20695

This Number and Shipper's Name Must Appear on All Shipments & Papers Relating To This Order.

DO NOT OVERSHIP - OVERSHIPMENTS  
497-9396 WILL BE RETURNED

RELEASE NO.

DATE	6-29-90	TERMS	N/30	F.O.B.	S/P
SHIP VIA	RAI	PER YOUR QUOTATION		ACCT. NO.	202-3866; 2560-7674

0W064X

TO WADSWORTH ALERT LAB, INC.  
4101 SHUFFEL DR. N.W.  
NORTH CANTON, OH 44720

JUL 9 1990

SHIP TO BLDG: 1035  
F/McCONNELL - 1030

M/F P.O. 20695

ITEM	QUANTITY	UNIT	DESCRIPTION	PRICE	
				UNIT	TOTAL
1.	5	EA	PROVIDE PCB ANALYSIS OF OIL FROM RIFLING MACHINES (L-2880; L-2881; L-2872; L-2873; RVA-5874) IN ACCORDANCE WITH CONTRACT REQUIREMENTS ATTACHED	60.00	300.00
			ENG/BAB/vp		
			DELIVERY REQUIRED 7-12-90	TOTAL	\$ 300.00

*B A Buchner*

ASST. BUYER

Item	Date	R. & I. No.	Qty. Rec'd.	Total to Date	No. Pkg.	Trans. Charge	Carrier	Pro. No.	Rec. Point
1.	7/10/90	SHIPPED	5 EA OIL	SAMPLES TO	VENDOR FOR	PCB ANALYSIS,	SO#4963		
1.	8/24/90	91724	5 EA	5			US MAIL		B ALBRECHT
PO CONSIDERED COMPLETE									

RA-21 THESE SIGNATURES APPLY ONLY TO LATEST RECEIPT SHOWN ABOVE

INSPECTED BY \_\_\_\_\_ RECEIVED BY \_\_\_\_\_