

# SYSTEM **REPORTS**

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**DINGO FLEET OIL**  
**PROFESSIONAL**

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Printed in Australia and the United States of America

Build 991119

Dingo FleetOil Professional System Reports

# Exception List - Summary

18NOV1999

Example Customer

Page 1 of 1

Equipment Number	Description	Count	Status
430	DRESSER 830E REAR DUMP	2	-
431	DRESSER 830E REAR DUMP	5	-
432	DRESSER 830E REAR DUMP	2	-
433	DRESSER 830E REAR DUMP	1	-
434	DRESSER 830E REAR DUMP	4	-
435	DRESSER 830E REAR DUMP	1	-
436	DRESSER 830E REAR DUMP	2	-
437	DRESSER 830E REAR DUMP	1	+
438	DRESSER 830E REAR DUMP	11	-
439	DRESSER 830E REAR DUMP	3	-
440	DRESSER 830E REAR DUMP	5	-
441	DRESSER 830E REAR DUMP	1	-
442	DRESSER 830E REAR DUMP	5	-
444	DRESSER 830E REAR DUMP	1	-
445	DRESSER 830E REAR DUMP	3	-
446	DRESSER 830E REAR DUMP	2	-
447	DRESSER 830E REAR DUMP	2	-
448	DRESSER 830E REAR DUMP	7	-
633	MARATHON LETOURNEAU L1100	4	-
634	MARATHON LETOURNEAU L1100	2	-
635	MARATHON LETOURNEAU L1100	6	-
636	MARATHON LETOURNEAU L1100	2	+
640	MARATHON LETOURNEAU L1400	5	-
641	MARATHON LETOURNEAU L1400	3	-
801	CATERPILLAR D11 DOZER	10	-
802	CATERPILLAR D11 DOZER	8	-
803	CATERPILLAR D11 DOZER	20	-
804	CATERPILLAR D11 DOZER	2	+
811	CATERPILLAR 16G GRADER	4	-
813	CATERPILLAR 16G GRADER	7	-
814	CATERPILLAR 16G GRADER	13	-
816	CATERPILLAR D10 DOZER	6	-

# Exception List - Detailed

Report date: 11/18/99 Page: 1

Equipment Number	Alarm Level	Predictor	Current	Alarm	Previous 1	Previous 2	Previous 3
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## 4/30/96

634-PD	INCREASING	V40	<b>330.00</b>	0.00	281.00	265.00	162.00
	MOD	SN	<b>0.01</b>	0.01	0.00	0.00	0.00
640-DRRLH	INCREASING	V40	<b>416.00</b>	0.00	400.00	398.00	385.00
	MOD	V40	<b>416.00</b>	415.93	400.00	398.00	385.00
640-DRRRH	INCREASING	V40	<b>415.00</b>	0.00	411.00	410.00	391.00
	HIGH	SI	<b>78.00</b>	73.39	85.00	55.00	70.00
640-PD	MOD	CR	<b>0.01</b>	0.00	0.00	0.00	0.00
801-FRH	INCREASING	SI	<b>125.00</b>	0.00	95.00	38.00	9.00
	EXTREME	SI	<b>125.00</b>	114.53	95.00	38.00	9.00

## 4/15/96

633-DRFLH	HIGH	SI	<b>44.00</b>	43.20	47.00	44.00	42.00
633-DRFRH	INCREASING	SI	<b>39.00</b>	0.00	37.00	36.00	35.00
633-DRRLH	MOD	SI	<b>53.00</b>	49.38	58.00	53.00	57.00
633-PD	MOD	SN	<b>0.01</b>	0.01	0.00	0.01	0.00
804-H	HIGH	SN	<b>0.00</b>	0.00	0.00	0.00	

## 4/11/96

802-E	INCREASING	ST	<b>0.27</b>	0.00	0.22	0.20	0.17
802-FLH	SPIKE	SN	<b>0.00</b>	0.00	0.00	0.00	0.00
	HIGH	SN	<b>0.00</b>	0.00	0.00	0.00	
802-FRH	SPIKE	SN	<b>0.00</b>	0.00	0.00	0.00	0.00
	HIGH	SN	<b>0.00</b>	0.00	0.00	0.00	
	MOD	CR	<b>0.00</b>	0.00	0.00	0.00	0.00

## 4/1/96

635-DRFLH	INCREASING	SI	<b>35.00</b>	0.00	30.00	29.00	28.00
	EXTREME	V40	<b>487.00</b>	435.75	513.00	509.00	338.00
635-DRFRH	EXTREME	SI	<b>53.00</b>	49.39	50.00	50.00	48.00
635-DRRLH	INCREASING	SI	<b>48.00</b>	0.00	39.00	37.00	34.00
	EXTREME	V40	<b>479.00</b>	437.44	507.00	495.00	408.00
635-DRRRH	INCREASING	SI	<b>47.00</b>	0.00	45.00	44.00	41.00
641-DRRLH	INCREASING	SI	<b>120.00</b>	0.00	115.00	104.00	102.00
	EXTREME	SI	<b>120.00</b>	84.19	115.00	104.00	102.00
641-DRRRH	MOD	V40	<b>419.00</b>	415.93	397.00	388.00	453.00

## 3/27/96

636-DRRLH	EXTREME	SI	<b>89.00</b>	61.90	90.00	98.00	90.00
636-DRRRH	EXTREME	SI	<b>62.00</b>	61.90	57.00	65.00	59.00

## 3/26/96

803-E	ACCELERATION	ST	<b>0.36</b>	0.00	0.25	0.16	0.11
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# Alarm Group Statistics

18NOV1999

Example Customer

Page 1 of 1

<b>Alarm Group :</b> CAT16G-T	<b>Number of Predictors in Group :</b>	17
<b>Description :</b> CAT CAT16G TRANSMISSION	<b>Number of Equipment in Group :</b>	3
	<b>Total Fluids in Group :</b>	168
	<b>Total Replacement Value of Group :</b>	\$0
	<b>Average Down Time Cost Per Hour :</b>	\$0

**Equipment in Alarm Group:**

811-T            813-T            814-T

Predictor	Range		Average	Std Dev	Count
	Min	Max			
Aluminium	1.00	14.00	3.52	2.85	120.00
Chromium	1.00	2.00	1.01	0.09	120.00
Copper	1.00	100.00	22.21	17.57	120.00
Fuel	0.00	0.00	0.00	0.00	117.00
Iron	1.00	58.00	17.05	11.17	120.00
Lead	0.00	9.00	0.77	1.70	117.00
Nitration	0.00	0.00	0.00	0.00	117.00
Oil Added since last Oil Change	0.00	0.00	0.00	0.00	120.00
Oil Days since last Oil Change	0.00	0.00	0.00	0.00	120.00
Oil Meter Units since last Oil Change	82.00	1,585.00	781.77	383.35	120.00
Oxidation	0.00	58.00	4.53	8.54	120.00
Particle Count	0.00	72.00	1.98	9.93	120.00
Silicon	1.00	48.00	11.88	7.60	120.00
Sodium	1.00	11.00	3.20	2.12	120.00
Soot	0.00	29.00	0.31	2.70	117.00
Sulphur	0.00	19.00	0.29	2.22	117.00
Water	0.00	1.00	0.02	0.11	117.00

# Alarm Group Correlations

18NOV1999

Example Customer

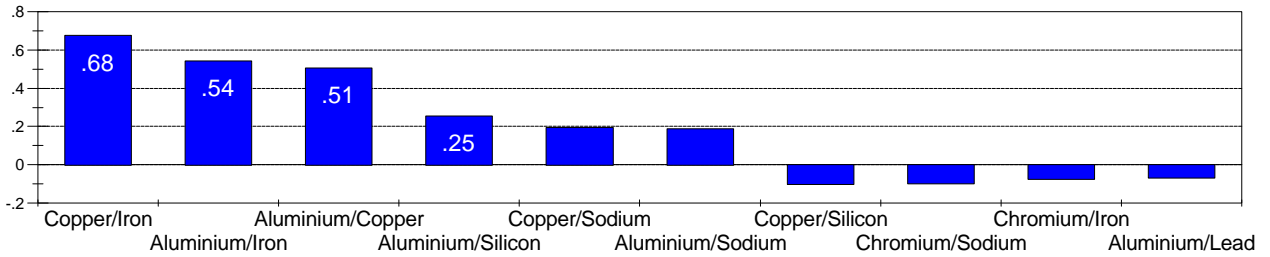
Page 1 of 1

<b>Alarm Group :</b> CAT16G-T	<b>Number of Equipment in Group :</b>	3
<b>Description :</b> CAT CAT16G TRANSMISSION	<b>Total Fluids in Group :</b>	168
	<b>Total Replacement Value of Group :</b>	\$0
	<b>Average Down Time Cost Per Hour :</b>	\$0

**Equipment in Alarm Group:**

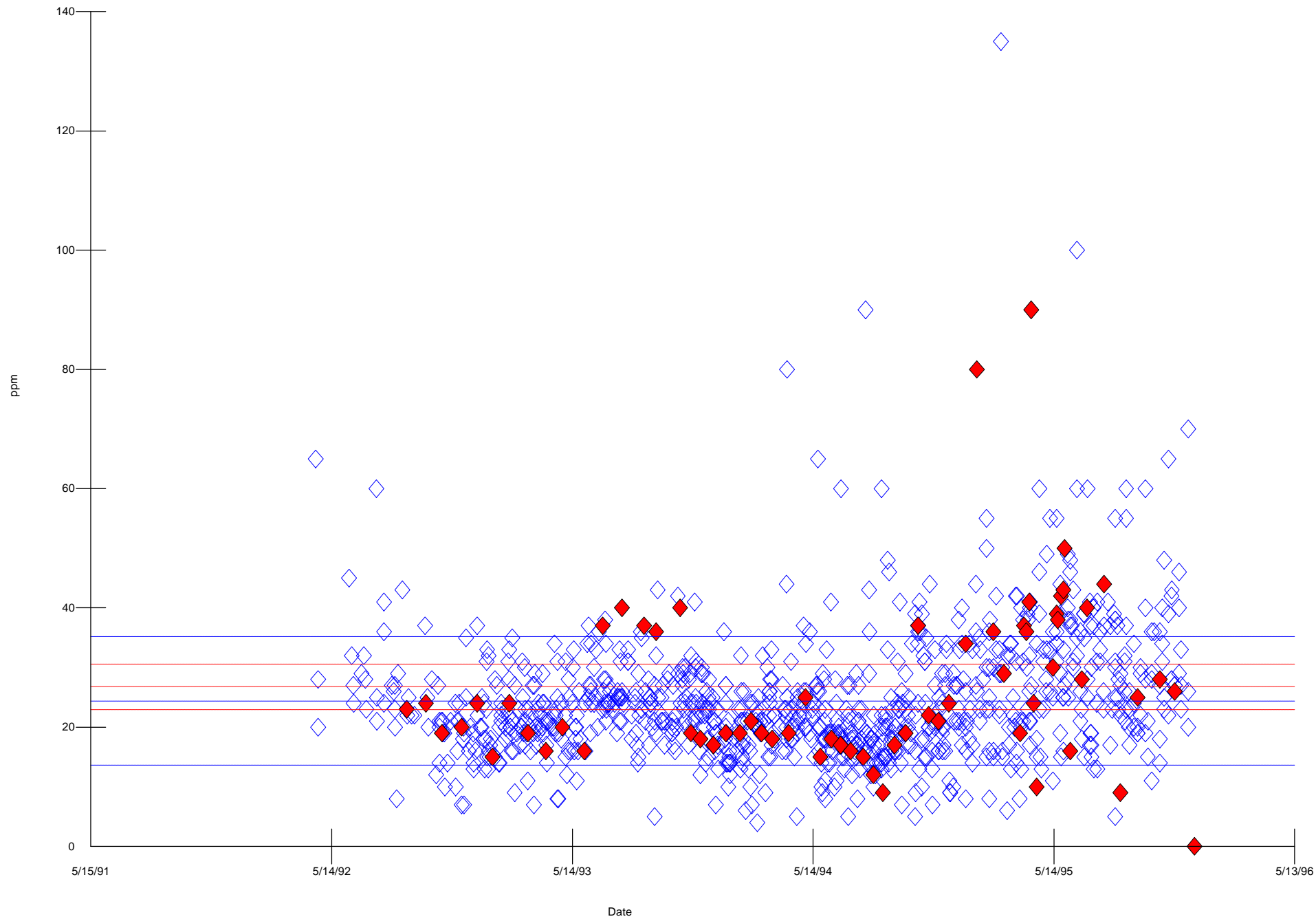
811-T      813-T      814-T

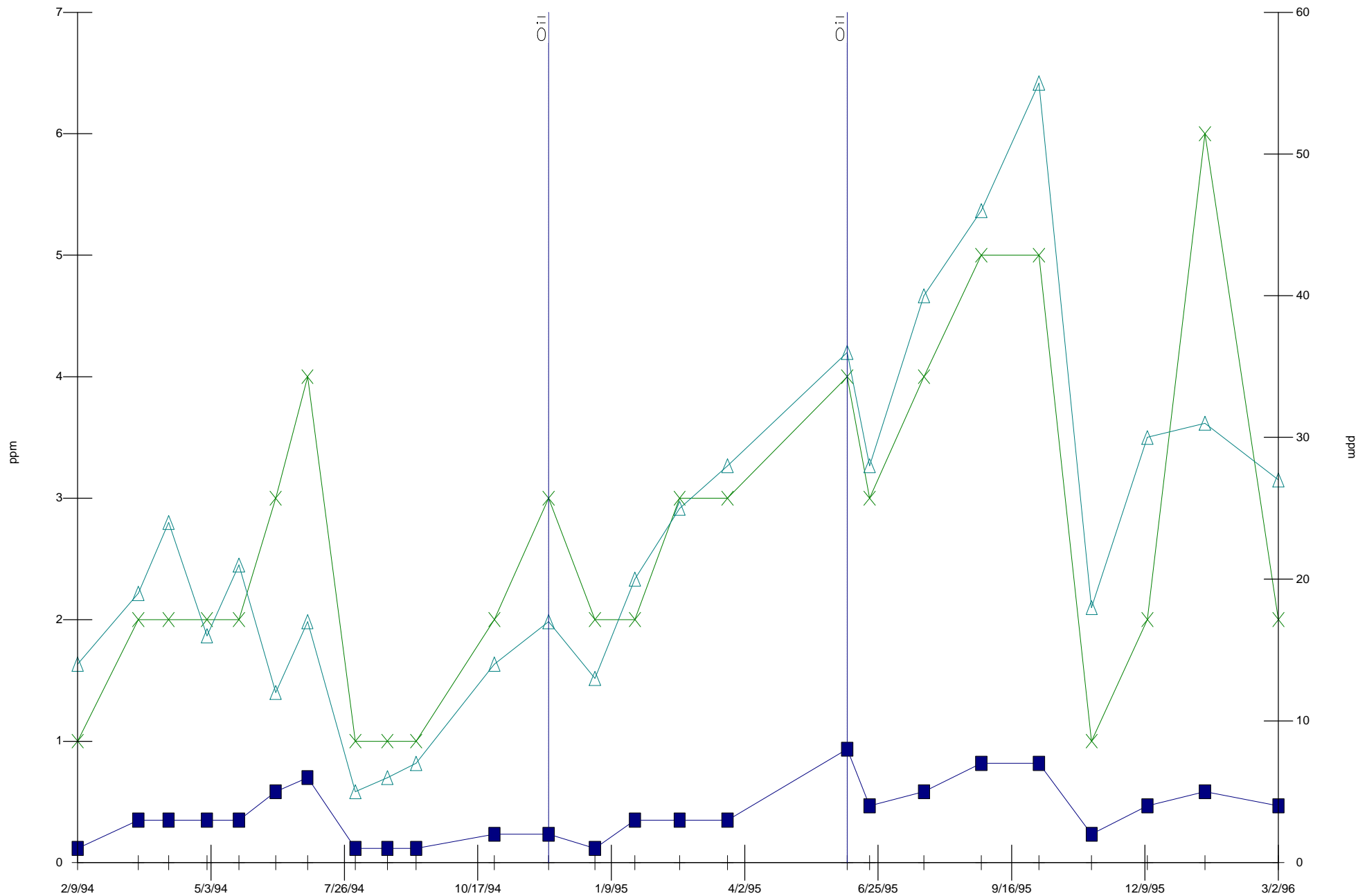
**10 Strongest Correlations:**



**Correlation Matrix:**

	AL	CR	CU	FE	NA	PB	SI	WA
Aluminium	1.0	.0	.5	.5	.2	-.1	.3	.0
Chromium	.0	1.0	-.1	-.1	-.1	.0	-.1	-.0
Copper	.5	-.1	1.0	.7	.2	.1	-.1	.0
Iron	.5	-.1	.7	1.0	.1	0.0	-.0	.1
Lead	-.1	.0	.1	0.0	-.0	1.0	-.1	-.1
Silicon	.3	-.1	-.1	-.0	.5	-.1	1.0	.1
Sodium	.2	-.1	.2	.1	1.0	-.0	.5	.1
Water	.0	-.0	.0	.1	.1	-.1	.1	1.0



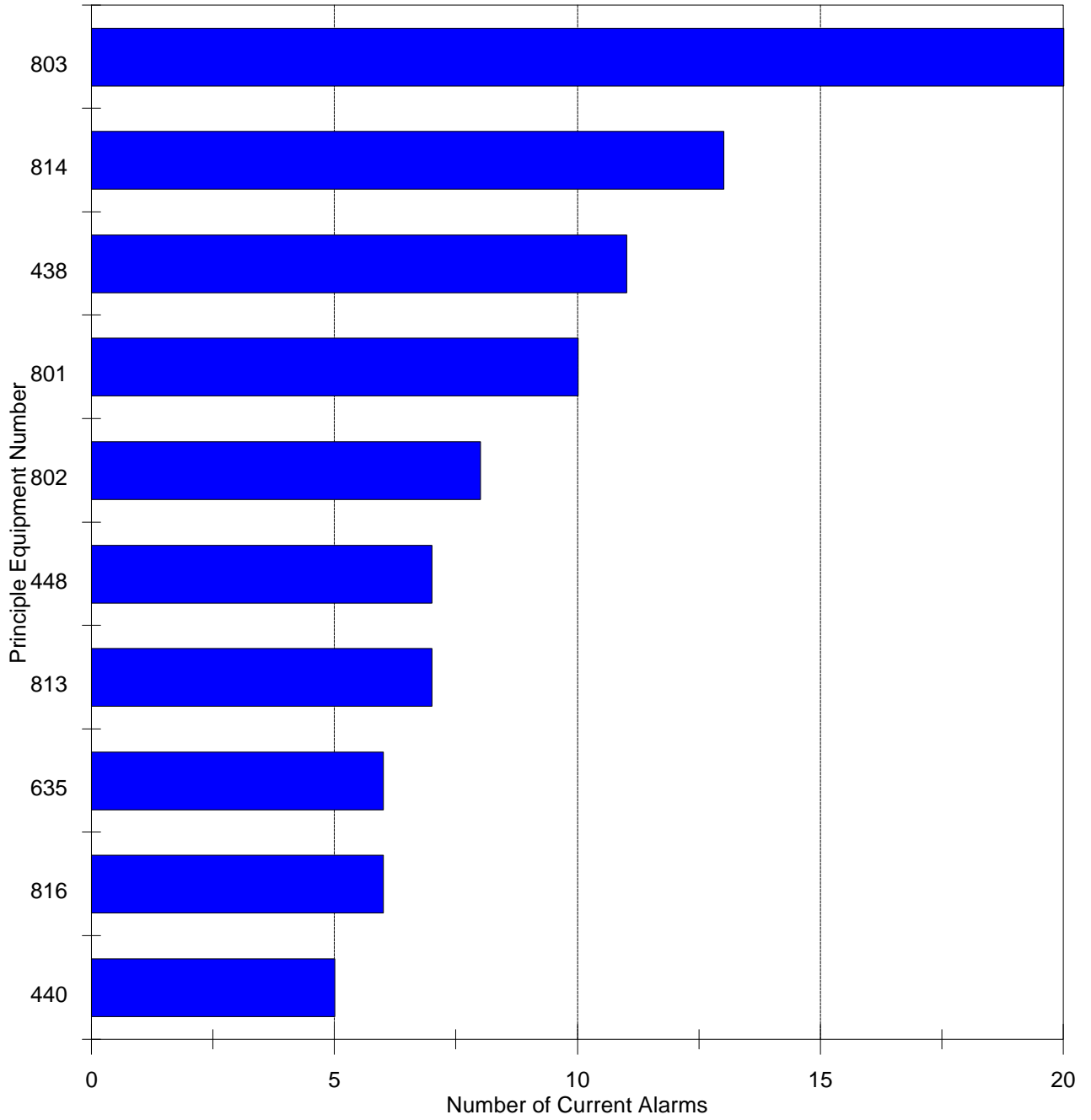


—x— CU

—△— FE

—■— AL

# Top 10 Equipment



# Fluid in Equipment

Example Customer

19NOV1999

Page 1 of 1

Number of Pieces Equipment containing fluid : **260**

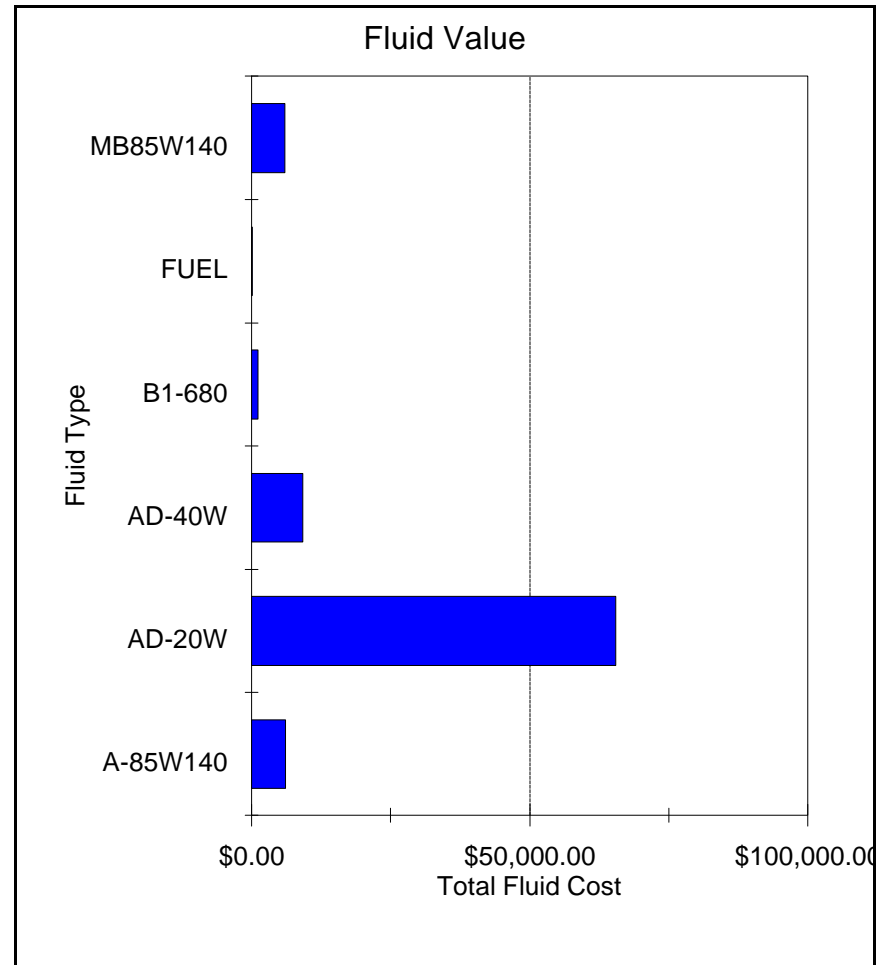
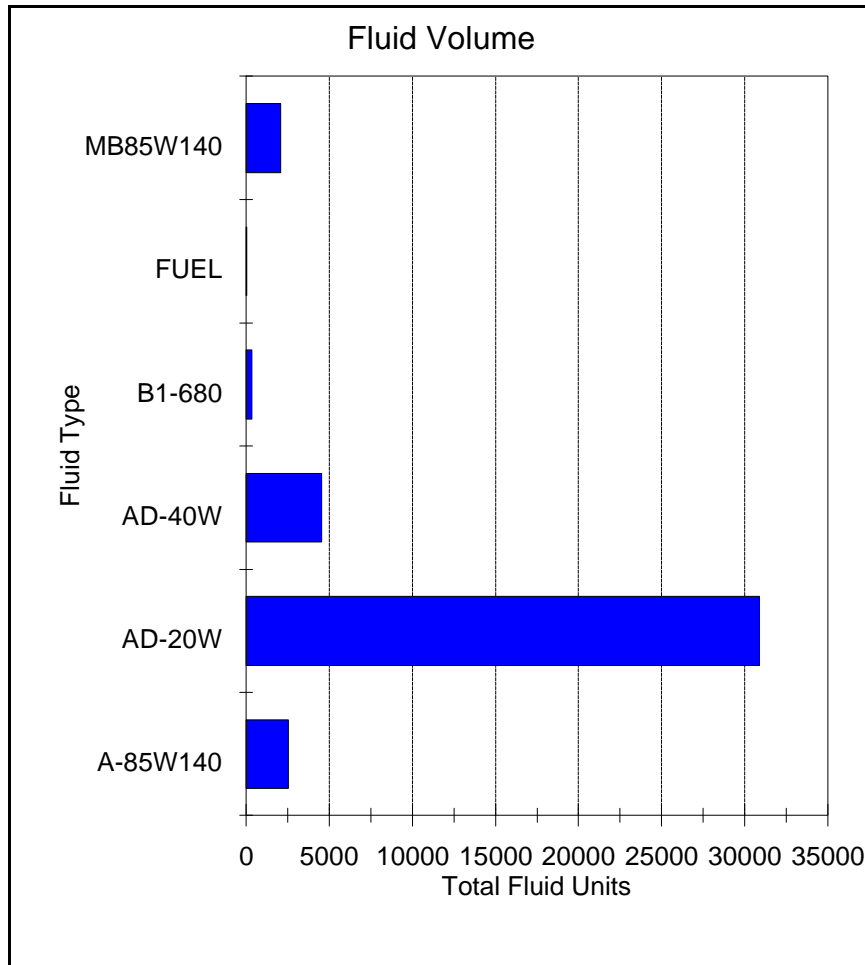
Average Fluid Units per Equipment: **154**

Total Fluids in Equipment : **40,164.00**

Average Cost of Fluids per Unit of Fluid : **\$2.18**

Total Value of Fluids in Equipment : **\$87,474.74**

Average Value of Fluid per Equipment: **\$336.44**



# Sample Summary Report

(by Sample date)

Printed 19 Nov 1999

Equipment Number	Description	Load date	Exceptions
<b>13 May 1996</b>			
<b>801-T</b>	<b>CAT CATD11 TRANS-PS-PRIMARY</b>	<b>07 May 1996</b>	<b>No</b>
Aluminium	Chromium	Copper	Iron
2	1	34	23
			Sodium
			1
			Lead
			6
<b>801-H</b>	<b>CAT CATD11 HYDRAULIC</b>	<b>07 May 1996</b>	<b>No</b>
Aluminium	Chromium	Copper	Iron
2	1	5	5
			Sodium
			1
			Lead
			3
<b>801-FRH</b>	<b>CAT CATD11 RH FINAL DRIVE</b>	<b>10 May 1996</b>	<b>Yes</b>
Aluminium	Chromium	Copper	Iron
37	7	2	290
			Sodium
			1
			Lead
			2
<b>801-FLH</b>	<b>CAT CATD11 LT FINAL DRIVE</b>	<b>10 May 1996</b>	<b>No</b>
Aluminium	Chromium	Copper	Iron
13	3	6	145
			Sodium
			1
			Lead
			2
<b>640-PD</b>	<b>LeTOURNEAU MARL1400 PUMP DRIVE</b>	<b>07 May 1996</b>	<b>Yes</b>
Aluminium	Chromium	Copper	Dielectric Constant
1	1	4	16
			Iron
			8
			Fuel
			0
			Sodium Added since last Oil Change   Days since last Oil Change   Units since last Oil Change
			1 0 0 197
			Lead
			1
			PQ Index
			-not tested-
<b>640-H</b>	<b>LeTOURNEAU MARL1400 HYDRAULIC</b>	<b>07 May 1996</b>	<b>No</b>
Aluminium	Chromium	Copper	Dielectric Constant
1	1	5	10
			Iron
			5
			Fuel
			0
			Sodium Added since last Oil Change   Days since last Oil Change   Units since last Oil Change
			1 0 0 13639
			Lead
			1
			PQ Index
			-not tested-
<b>640-E</b>	<b>LeTOURNEAU MARL1400 ENGINE</b>	<b>10 May 1996</b>	<b>No</b>
Aluminium	Chromium	Copper	Dielectric Constant
1	1	3	17
			Iron
			9
			Fuel
			1
			Sodium Added since last Oil Change   Days since last Oil Change   Units since last Oil Change
			1 0 0 197
			Lead
			8
			PQ Index
			-not tested-
<b>640-DRRRH</b>	<b>LeTOURNEAU MARL1400 RHR DRIVER</b>	<b>10 May 1996</b>	<b>Yes</b>
Aluminium	Chromium	Copper	Dielectric Constant
8	2	10	16
			Iron
			200
			Fuel
			0
			Sodium Added since last Oil Change   Days since last Oil Change   Units since last Oil Change
			18 0 0 8578
			Lead
			3
			PQ Index
			-not tested-
<b>640-DRRLH</b>	<b>LeTOURNEAU MARL1400 LHR DRIVER</b>	<b>10 May 1996</b>	<b>Yes</b>
Aluminium	Chromium	Copper	Dielectric Constant
1	2	10	17
			Iron
			140
			Fuel
			0
			Sodium Added since last Oil Change   Days since last Oil Change   Units since last Oil Change
			18 0 0 8578
			Lead
			4
			PQ Index
			-not tested-
<b>640-DRFRH</b>	<b>LeTOURNEAU MARL1400 RHF DRIVER</b>	<b>10 May 1996</b>	<b>No</b>
Aluminium	Chromium	Copper	Dielectric Constant
1	2	10	16
			Iron
			85
			Fuel
			0
			Sodium Added since last Oil Change   Days since last Oil Change   Units since last Oil Change
			16 0 0 1567
			Lead
			4
			PQ Index
			-not tested-
<b>640-DRFLH</b>	<b>LeTOURNEAU MARL1400 LHF DRIVER</b>	<b>10 May 1996</b>	<b>Yes</b>
Aluminium	Chromium	Copper	Dielectric Constant
1	2	9	16
			Iron
			80
			Fuel
			0
			Sodium Added since last Oil Change   Days since last Oil Change   Units since last Oil Change
			17 0 0 1567
			Lead
			4
			PQ Index
			-not tested-
<b>634-PD</b>	<b>LeTOURNEAU L1100 PUMP DRIVE</b>	<b>07 May 1996</b>	<b>Yes</b>
Aluminium	Chromium	Copper	Dielectric Constant
1	1	2	19
			Iron
			18
			Fuel
			0
			Sodium Added since last Oil Change   Days since last Oil Change   Units since last Oil Change
			1 0 0 144
			Lead
			1
			PQ Index
			-not tested-
<b>634-H</b>	<b>LeTOURNEAU L1100 HYDRAULIC</b>	<b>07 May 1996</b>	<b>No</b>
Aluminium	Chromium	Copper	Dielectric Constant
2	1	45	9
			Iron
			7
			Fuel
			0
			Sodium Added since last Oil Change   Days since last Oil Change   Units since last Oil Change
			1 0 0 15760
			Lead
			1
			PQ Index
			-not tested-



# Oil Analysis Request Form

Print date: 11/18/99

## Example Customer

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: black; color: white;"><b>Laboratory</b></td> <td><b>CATM</b></td> </tr> <tr> <td style="background-color: black; color: white;"><b>Customer details</b></td> <td>ID: _____</td> </tr> <tr> <td colspan="2">Company: Example Customer</td> </tr> <tr> <td colspan="2">Address: 2509A S. 12th St ***</td> </tr> <tr> <td colspan="2">Site: St Louis, MO</td> </tr> <tr> <td colspan="2">Phone: 1-888-346-4630 or 314-772-3311</td> </tr> <tr> <td colspan="2">Fax: 314-772-8222</td> </tr> </table>	<b>Laboratory</b>	<b>CATM</b>	<b>Customer details</b>	ID: _____	Company: Example Customer		Address: 2509A S. 12th St ***		Site: St Louis, MO		Phone: 1-888-346-4630 or 314-772-3311		Fax: 314-772-8222		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: black; color: white;"><b>Sample details</b></td> <td>ID: _____</td> </tr> <tr> <td>Sample date:</td> <td><b>4/30/96</b></td> </tr> <tr> <td>Request date:</td> <td>4/30/96</td> </tr> <tr> <td>Oil changed:</td> <td>Yes</td> </tr> <tr> <td>Days since oil change:</td> <td>0</td> </tr> <tr> <td>Oil added since oil change:</td> <td>0</td> </tr> <tr> <td>Hours since oil change:</td> <td>466</td> </tr> <tr> <td style="background-color: black; color: white;"><b>Lubricant details</b></td> <td>Manufacturer: Ampol</td> </tr> <tr> <td colspan="2">Make/Grade: Duelube / 40W</td> </tr> </table>	<b>Sample details</b>	ID: _____	Sample date:	<b>4/30/96</b>	Request date:	4/30/96	Oil changed:	Yes	Days since oil change:	0	Oil added since oil change:	0	Hours since oil change:	466	<b>Lubricant details</b>	Manufacturer: Ampol	Make/Grade: Duelube / 40W	
<b>Laboratory</b>	<b>CATM</b>																																
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Make/Grade: Duelube / 40W																																	
<b>Equipment information</b>																																	
Equipment Number: <b>801-E</b>																																	
Serial #:	<b>74Z783</b>																																
Meter reading:																																	
Principal EqNum:	801																																
Principal's serial#:	74Z783																																
Description:	CAT CATD11 ENGINE-PRIMARY																																
Make:	CAT																																
Model:	CATD11																																
Lubricant capacity:	<b>106</b>																																
<b>Comments:</b> :																																	

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Make/Grade: Duelube / 20W																																	
<b>Equipment information</b>																																	
Equipment Number: <b>801-T</b>																																	
Serial #:	<b>74Z783</b>																																
Meter reading:																																	
Principal EqNum:	801																																
Principal's serial#:	74Z783																																
Description:	CAT CATD11 TRANS-PS-PRIMARY																																
Make:	CAT																																
Model:	CATD11																																
Lubricant capacity:	<b>243</b>																																
<b>Comments:</b> :																																	

# Lubricants Survey

19NOV1999

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Equip No.	Description	Capacity (litre)	\$	Sample Interval	Change Interval
<b>Fluid : A-85W140</b>		<b>Type : Ampol 85W140</b>		<b>\$ /litre = \$2.42</b>	
1234-WBFLH	DRESSER DRESR830 LH FRONT WHEEL BRG	10	\$24.20	660	660
1234-WBFRH	DRESSER DRESR830 RH FRONT WHEEL BRG	10	\$24.20	660	660
1234-WMLH	DRESSER DRESR830 LEFT WHEELMOTOR	40	\$96.80	330	330
1234-WMRH	DRESSER DRESR830 RIGHT WHEELMOTOR	40	\$96.80	330	330
1236-WBFLH	DRESSER DRESR830 LH FRONT WHEEL BRG	10	\$24.20	660	660
1236-WBFRH	DRESSER DRESR830 RH FRONT WHEEL BRG	10	\$24.20	660	660
1236-WMLH	DRESSER DRESR830 LEFT WHEELMOTOR	40	\$96.80	330	330
1236-WMRH	DRESSER DRESR830 RIGHT WHEELMOTOR	40	\$96.80	330	330
430-WBFLH	DRESSER DRESR830 LH FRONT WHEEL BRG	10	\$24.20	660	660
430-WBFRH	DRESSER DRESR830 RH FRONT WHEEL BRG	10	\$24.20	660	660
430-WMLH	DRESSER DRESR830 LEFT WHEELMOTOR	40	\$96.80	330	330
430-WMRH	DRESSER DRESR830 RIGHT WHEELMOTOR	40	\$96.80	330	330
431-WBFLH	DRESSER DRESR830 LH FRONT WHEEL BRG	10	\$24.20	660	660
431-WBFRH	DRESSER DRESR830 RH FRONT WHEEL BRG	10	\$24.20	660	660
431-WMLH	DRESSER DRESR830 LEFT WHEELMOTOR	40	\$96.80	330	330
431-WMRH	DRESSER DRESR830 RIGHT WHEELMOTOR	40	\$96.80	330	330
432-WBFLH	DRESSER DRESR830 LH FRONT WHEEL BRG	10	\$24.20	660	660
432-WBFRH	DRESSER DRESR830 RH FRONT WHEEL BRG	10	\$24.20	660	660
432-WMLH	DRESSER DRESR830 LEFT WHEELMOTOR	40	\$96.80	330	330
432-WMRH	DRESSER DRESR830 RIGHT WHEELMOTOR	40	\$96.80	330	330
433-WBFLH	DRESSER DRESR830 LH FRONT WHEEL BRG	10	\$24.20	660	660
433-WBFRH	DRESSER DRESR830 RH FRONT WHEEL BRG	10	\$24.20	660	660
433-WMLH	DRESSER DRESR830 LEFT WHEELMOTOR	40	\$96.80	330	330
433-WMRH	DRESSER DRESR830 RIGHT WHEELMOTOR	40	\$96.80	330	330
434-WBFLH	DRESSER DRESR830 LH FRONT WHEEL BRG	10	\$24.20	660	660
434-WBFRH	DRESSER DRESR830 RH FRONT WHEEL BRG	10	\$24.20	660	660