



# OIL ANALYSIS REPORT

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**813573**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC EXTREME 15W40 (--- GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

## WEAR

The aluminum level is abnormal. All other component wear rates are normal.

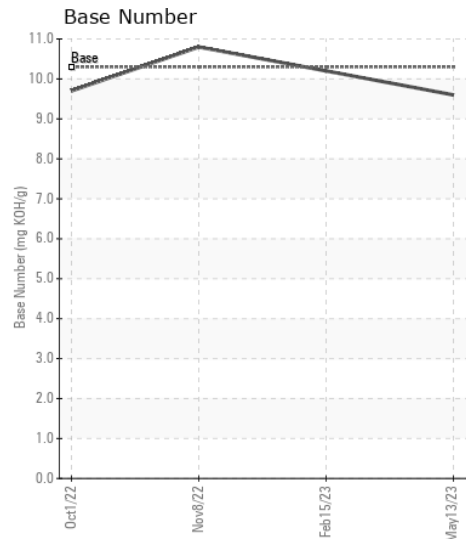
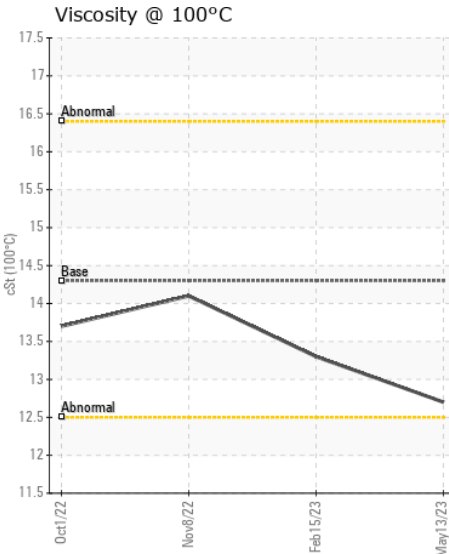
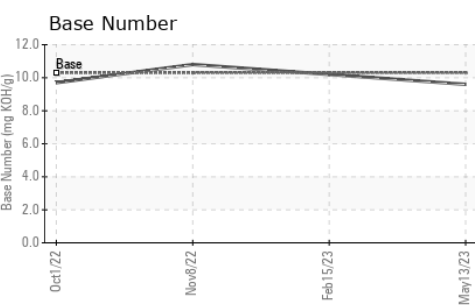
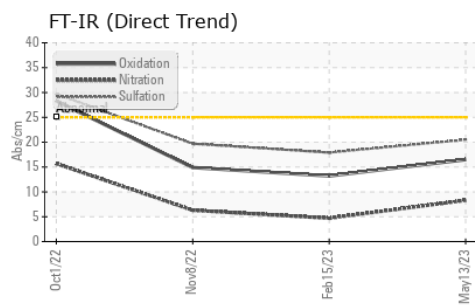
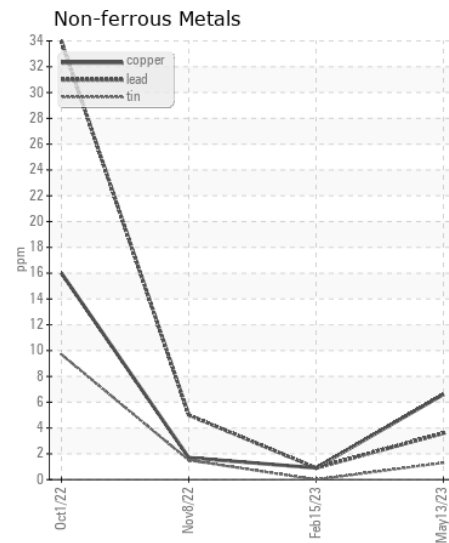
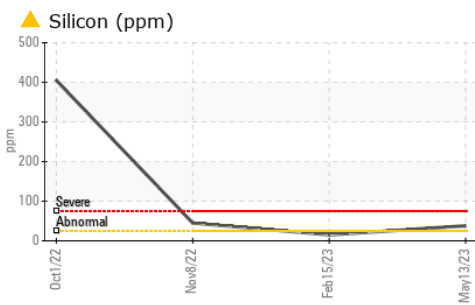
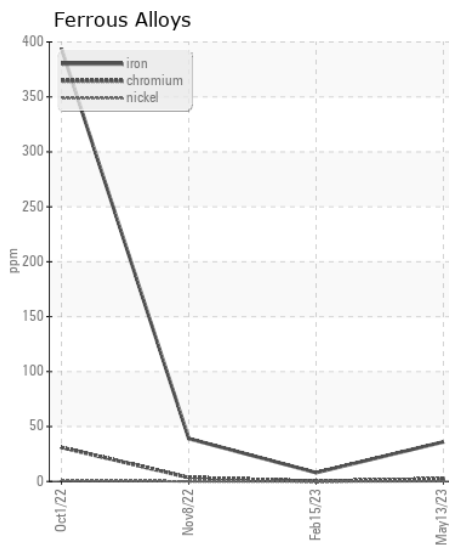
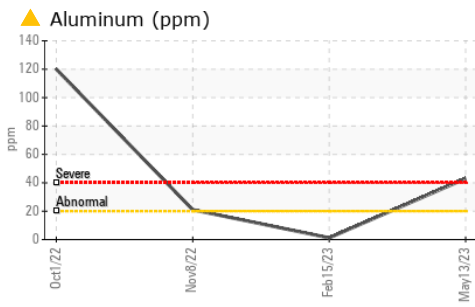
## CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of seal material.

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0008166</b>	RPL0008011	RPL0007373
Sample Date		Client Info		<b>13 May 2023</b>	15 Feb 2023	08 Nov 2022
Machine Age	hrs	Client Info		<b>2029</b>	4	2027
Oil Age	hrs	Client Info		<b>426</b>	4	10
Filter Age	hrs	Client Info		<b>426</b>	4	10
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>100	<b>36</b>	8	39
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	<1	4
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>▲ 43</b>	1	● 21
Lead	ppm	ASTM D5185m	>40	<b>4</b>	<1	5
Copper	ppm	ASTM D5185m	>330	<b>7</b>	<1	2
Tin	ppm	ASTM D5185m	>15	<b>1</b>	0	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	<b>▲ 38</b>	15	▲ 45
Potassium	ppm	ASTM D5185m	>20	<b>130</b>	2	23
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.1	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.3</b>	4.7	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.5</b>	17.9	19.7
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>5</b>	2	<1
Boron	ppm	ASTM D5185m		<b>4</b>	5	16
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>64</b>	60	60
Manganese	ppm	ASTM D5185m		<b>3</b>	2	1
Magnesium	ppm	ASTM D5185m		<b>907</b>	912	863
Calcium	ppm	ASTM D5185m		<b>1146</b>	1140	1343
Phosphorus	ppm	ASTM D5185m		<b>1038</b>	980	917
Zinc	ppm	ASTM D5185m		<b>1276</b>	1307	1190
Sulfur	ppm	ASTM D5185m		<b>3462</b>	3602	3568
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.5</b>	13.2	14.9
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	<b>9.6</b>	10.2	10.8
Visc @ 100°C	cSt	ASTM D445	14.3	<b>12.7</b>	13.3	14.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0008166 **Received** : 30 May 2023  
**Lab Number** : 05859055 **Tested** : 31 May 2023  
**Unique Number** : 10493520 **Diagnosed** : 01 Jun 2023 - Jonathan Hester  
**Test Package** : FLEET

**RTL PACLEASE - 7017 - Oklahoma City**  
 8700 West I-40  
 Oklahoma City, OK  
 US 73128  
 Contact: TECHNICIAN ACCOUNT  
 catherine.anastasio@wearcheck.com  
 T:  
 F:

Certificate L2367  
 To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)