



# OIL ANALYSIS REPORT

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

Machine Id  
**859-1721**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

## RECOMMENDATION

We advise that you check for possible coolant leak. Check for low coolant level. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0016188</b>	RPL0013328	RPL0012754
Sample Date		Client Info		<b>23 Oct 2023</b>	02 Aug 2023	24 May 2023
Machine Age	mls	Client Info		<b>438016</b>	436218	430664
Oil Age	mls	Client Info		<b>0</b>	0	0
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>4</b>	5	20
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	8
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	3	7
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>0</b>	<1	3
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

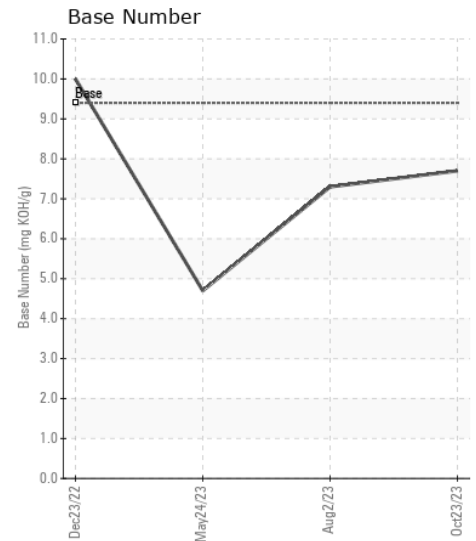
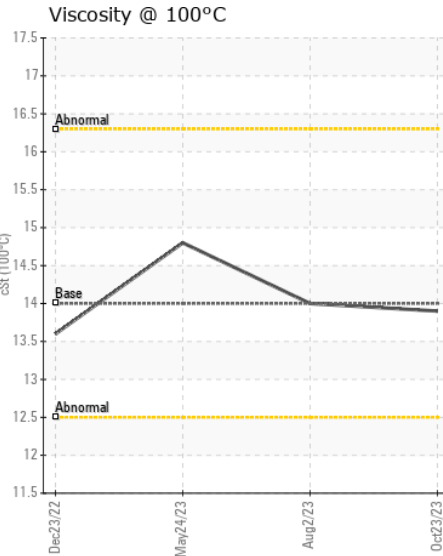
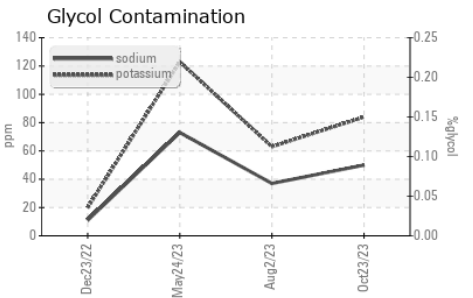
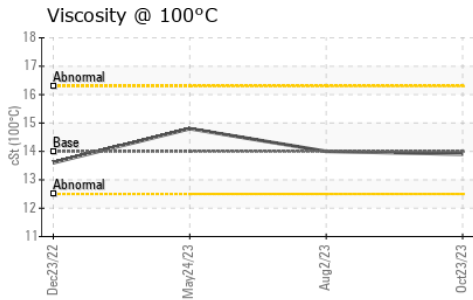
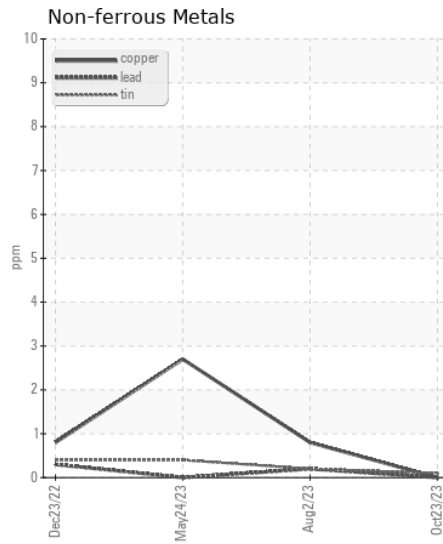
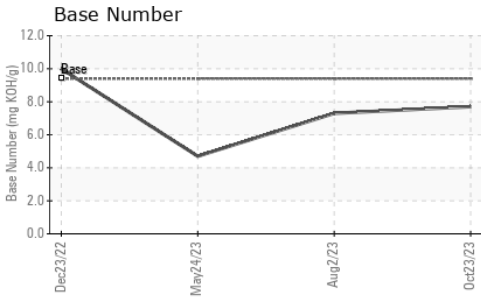
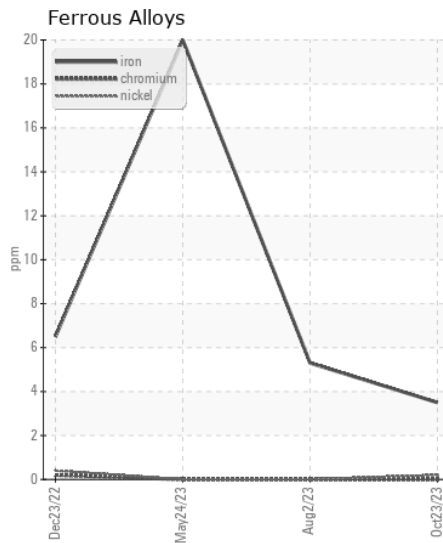
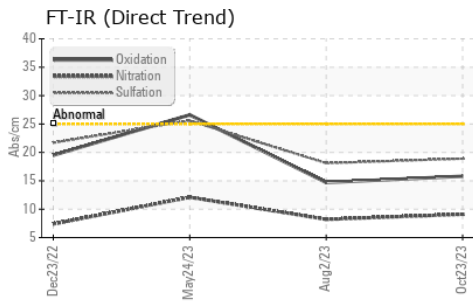
Sodium and/or potassium levels remain high.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	6	10
Potassium	ppm	ASTM D5185m	>20	<b>▲ 84</b>	<b>▲ 63</b>	<b>▲ 123</b>
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	*ASTM D2982		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.2	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.1</b>	8.2	12.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.9</b>	18.1	25.6
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

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m		<b>▲ 50</b>	<b>▲ 37</b>	<b>▲ 73</b>
Boron	ppm	ASTM D5185m	0	<b>34</b>	46	9
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>94</b>	95	56
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>597</b>	641	477
Calcium	ppm	ASTM D5185m		<b>1306</b>	1468	1924
Phosphorus	ppm	ASTM D5185m		<b>774</b>	774	788
Zinc	ppm	ASTM D5185m		<b>893</b>	973	1017
Sulfur	ppm	ASTM D5185m		<b>2951</b>	3737	2922
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.8</b>	14.7	26.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>7.7</b>	7.3	4.7
Visc @ 100°C	cSt	ASTM D445	14	<b>13.9</b>	14.0	14.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0016188 **Received** : 02 Nov 2023  
**Lab Number** : 05997247 **Tested** : 05 Nov 2023  
**Unique Number** : 10725607 **Diagnosed** : 05 Nov 2023 - Don Baldrige  
**Test Package** : FLEET ( Additional Tests: Glycol )

**RTL PACLEASE - 7051 -Las Vegas**  
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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)