



# OIL ANALYSIS REPORT

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

Machine Id  
**813-572**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC EXTREME 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>RPL0008091</b>	RPL0008171	RPL0007994
Sample Date		Client Info		<b>28 Nov 2023</b>	12 May 2023	02 Feb 2023
Machine Age	hrs	Client Info		<b>9542</b>	217664	171129
Oil Age	hrs	Client Info		<b>1863</b>	46535	34181
Filter Age	hrs	Client Info		<b>1863</b>	46535	34181
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>14</b>	39	38
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>5</b>	5	10
Lead	ppm	ASTM D5185m	>40	<b>3</b>	7	4
Copper	ppm	ASTM D5185m	>330	<b>0</b>	1	1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

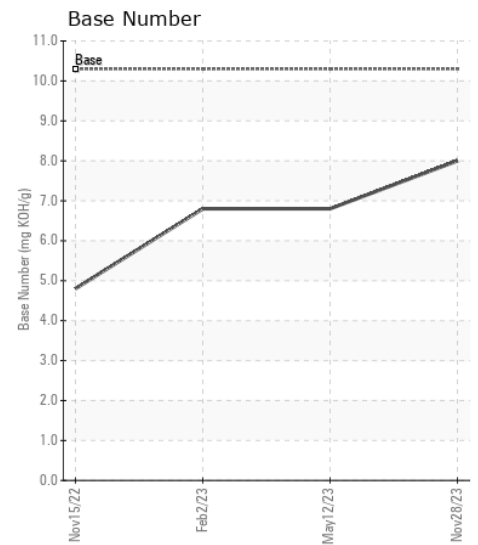
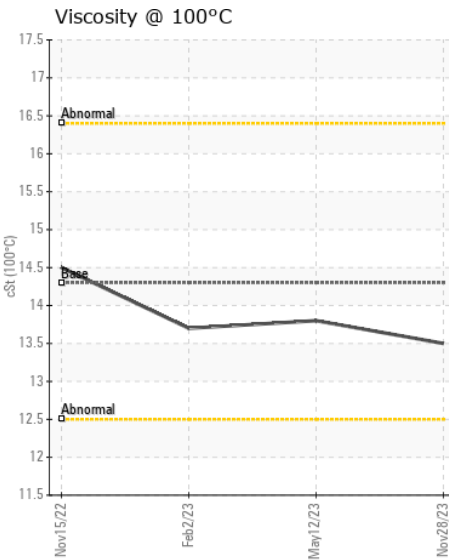
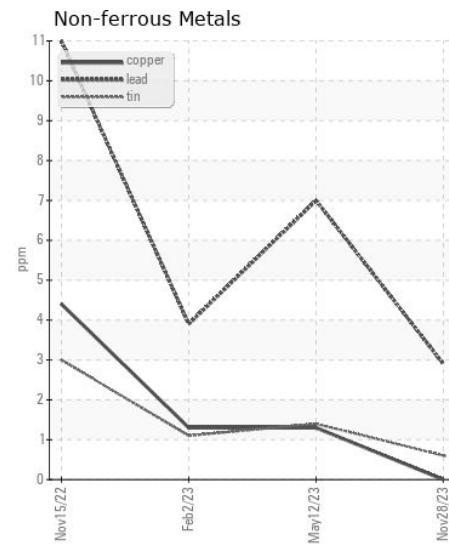
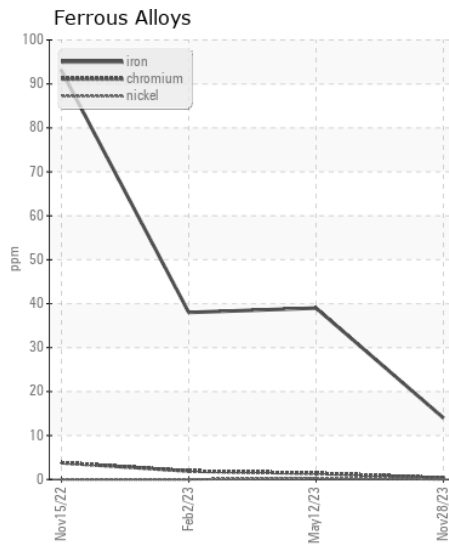
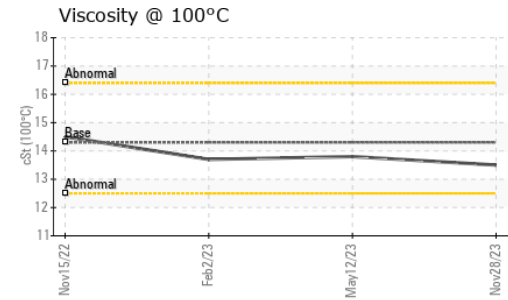
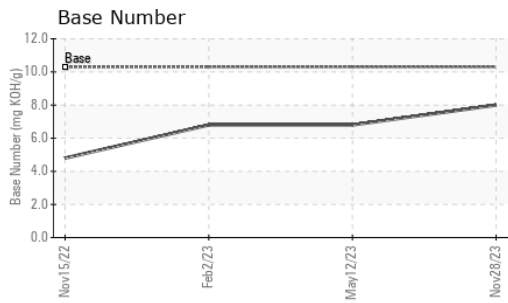
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	5	7
Potassium	ppm	ASTM D5185m	>20	<b>10</b>	13	22
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>0.6</b>	1	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.3</b>	13.0	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.2</b>	27.1	24.5
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. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	2
Boron	ppm	ASTM D5185m		<b>4</b>	1	3
Barium	ppm	ASTM D5185m		<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m		<b>69</b>	70	65
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>1056</b>	1027	919
Calcium	ppm	ASTM D5185m		<b>1119</b>	1208	1089
Phosphorus	ppm	ASTM D5185m		<b>1141</b>	1126	986
Zinc	ppm	ASTM D5185m		<b>1381</b>	1390	1224
Sulfur	ppm	ASTM D5185m		<b>3126</b>	3298	2797
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.2</b>	23.5	21.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.3	<b>8.0</b>	6.8	6.8
Visc @ 100°C	cSt	ASTM D445	14.3	<b>13.5</b>	13.8	13.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RPL0008091 **Received** : 16 Jan 2024  
**Lab Number** : 06060894 **Diagnosed** : 17 Jan 2024  
**Unique Number** : 10832276 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

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

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)

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F: