



# OIL ANALYSIS REPORT

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

Machine Id  
**46462**  
 Component  
**Diesel Engine**  
 Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0866986</b>	WC0795596	WC0794578
Sample Date		Client Info		<b>11 Mar 2024</b>	07 Oct 2023	11 Apr 2023
Machine Age	mls	Client Info		<b>183868</b>	142618	116800
Oil Age	mls	Client Info		<b>67068</b>	25000	0
Filter Age	mls	Client Info		<b>67068</b>	25000	0
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>52</b>	23	18
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>8</b>	3	5
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>10</b>	4	4
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

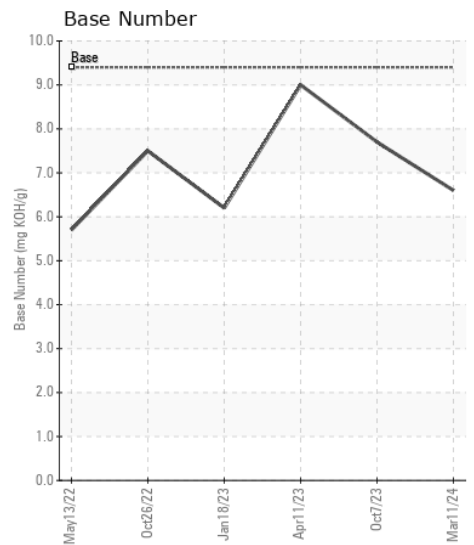
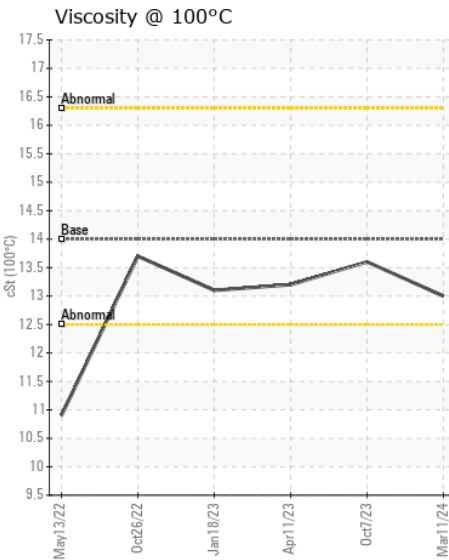
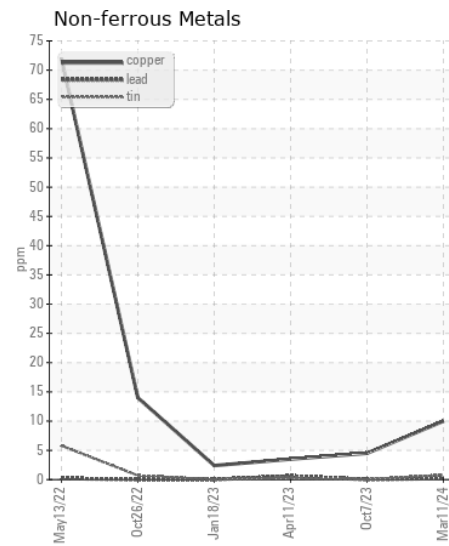
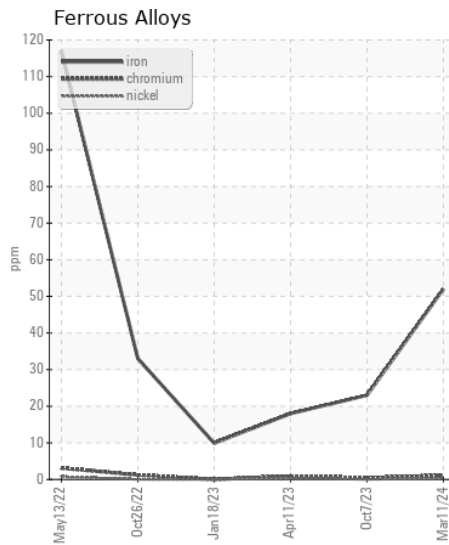
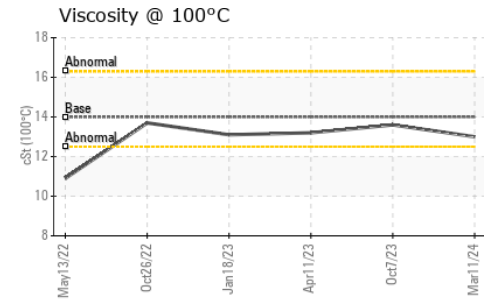
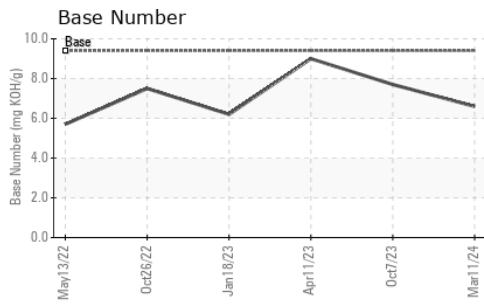
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	4	6
Potassium	ppm	ASTM D5185m	>20	<b>14</b>	6	8
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>1.2</b>	1.1	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.0</b>	11.4	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.6</b>	23.8	21.7
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

## 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>2</b>	<1	1
Boron	ppm	ASTM D5185m	0	<b>6</b>	2	6
Barium	ppm	ASTM D5185m	0	<b>2</b>	<1	0
Molybdenum	ppm	ASTM D5185m	0	<b>86</b>	67	65
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	0	<b>986</b>	984	1030
Calcium	ppm	ASTM D5185m		<b>1259</b>	1151	1250
Phosphorus	ppm	ASTM D5185m		<b>990</b>	976	1085
Zinc	ppm	ASTM D5185m		<b>1311</b>	1283	1392
Sulfur	ppm	ASTM D5185m		<b>2790</b>	2939	3699
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.1</b>	21.2	18.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	<b>6.6</b>	7.7	9.0
Visc @ 100°C	cSt	ASTM D445	14	<b>13.0</b>	13.6	13.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0866986  
**Lab Number** : 06125385  
**Unique Number** : 10939536  
**Test Package** : FLEET  
**Received** : 21 Mar 2024  
**Tested** : 25 Mar 2024  
**Diagnosed** : 25 Mar 2024 - Sean Felton

**SALEM NATIONALEASE CORPORATION**  
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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)