



# OIL ANALYSIS REPORT

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

Machine Id  
**INTERNATIONAL 8694**  
Component  
**Diesel Engine**  
Fluid  
**MOBIL 15W40 (44 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0928940</b>	WC0841756	WC0742355
Sample Date		Client Info		<b>07 Jun 2024</b>	25 Aug 2023	23 Nov 2022
Machine Age	mls	Client Info		<b>242556</b>	233365	220113
Oil Age	mls	Client Info		<b>0</b>	0	15000
Filter Age	mls	Client Info		<b>0</b>	0	15000
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	>165	<b>57</b>	3	18
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	<1	0
Lead	ppm	ASTM D5185m	>150	<b>4</b>	<1	4
Copper	ppm	ASTM D5185m	>90	<b>&lt;1</b>	4	0
Tin	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
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

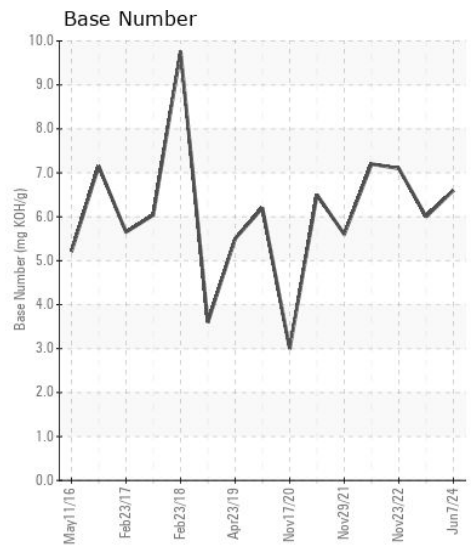
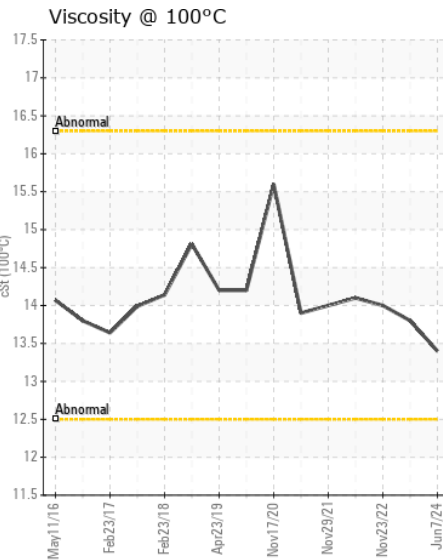
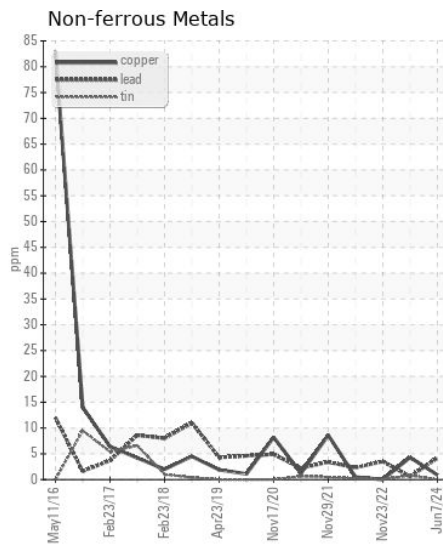
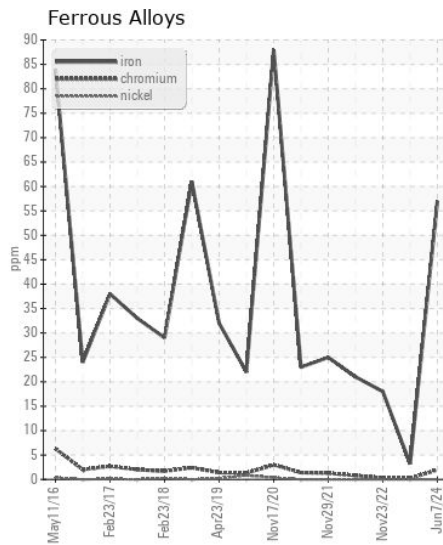
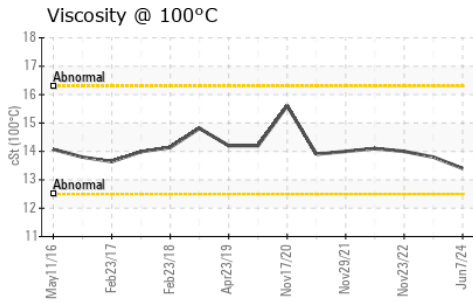
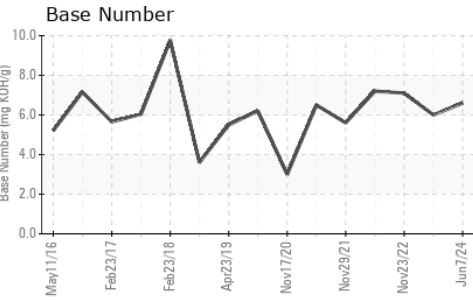
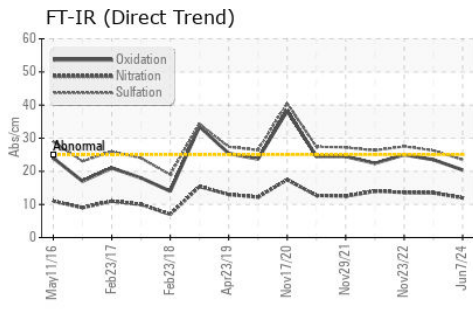
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>35	<b>11</b>	6	0
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	8	<1
Fuel		WC Method	>3.0	<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	>7.5	<b>0.5</b>	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.0</b>	13.5	13.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.5</b>	26.3	27.5
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	>118	<b>7</b>	4	<1
Boron	ppm	ASTM D5185m		<b>12</b>	178	<1
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>67</b>	15	70
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	0
Magnesium	ppm	ASTM D5185m		<b>1013</b>	74	1034
Calcium	ppm	ASTM D5185m		<b>1250</b>	2166	1261
Phosphorus	ppm	ASTM D5185m		<b>1108</b>	1010	1155
Zinc	ppm	ASTM D5185m		<b>1347</b>	1222	1402
Sulfur	ppm	ASTM D5185m		<b>3868</b>	3584	3664
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.4</b>	23.5	25.0
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.6</b>	6.0	7.1
Visc @ 100°C	cSt	ASTM D445		<b>13.4</b>	13.8	14.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : WC0928940

**Lab Number** : 06229506

**Unique Number** : 11112999

**Test Package** : FLEET

**Received** : 05 Jul 2024

**Tested** : 09 Jul 2024

**Diagnosed** : 09 Jul 2024 - Don Baldridge

**SALEM NATIONALEASE CORPORATION**

198 PARK PLAZA DRIVE

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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)