



# OIL ANALYSIS REPORT

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

Machine Id  
**17809**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0867019</b>	WC0798077	---
Sample Date		Client Info		<b>04 Mar 2024</b>	20 Sep 2023	---
Machine Age	mls	Client Info		<b>19867</b>	10574	---
Oil Age	mls	Client Info		<b>9293</b>	10574	---
Filter Age	mls	Client Info		<b>9293</b>	10574	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>63</b>	74	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	1	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>10</b>	8	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>19</b>	55	---
Tin	ppm	ASTM D5185m	>15	<b>1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

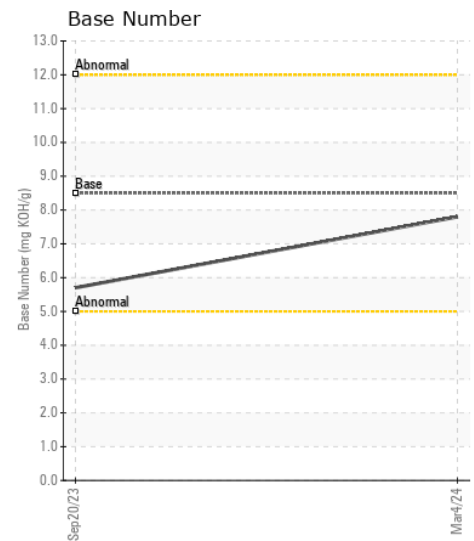
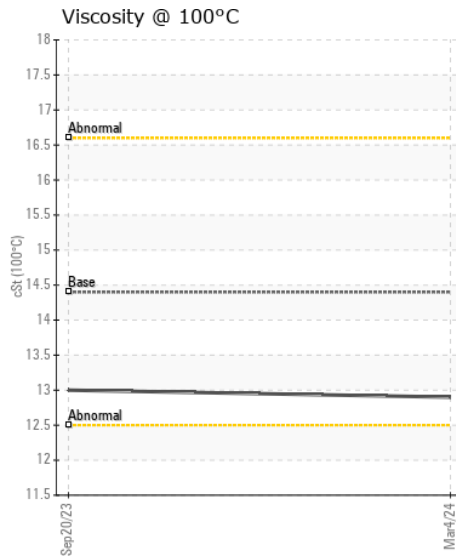
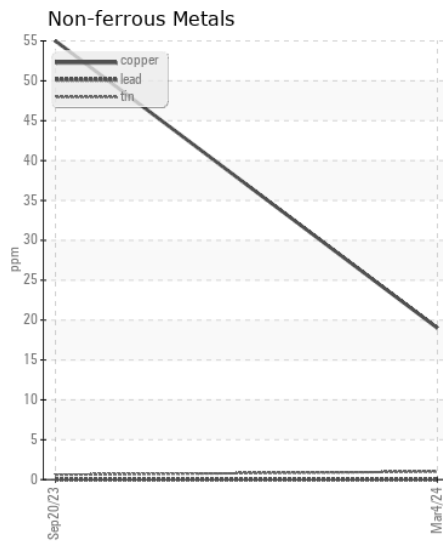
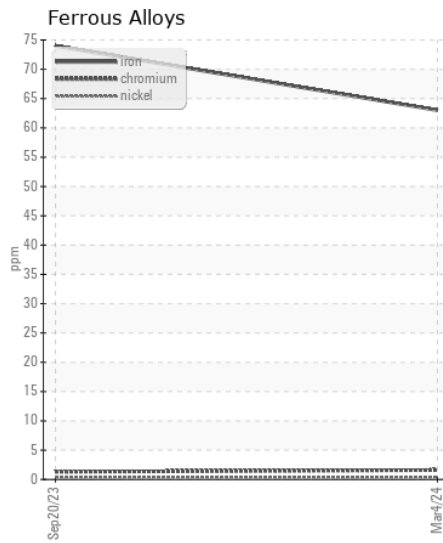
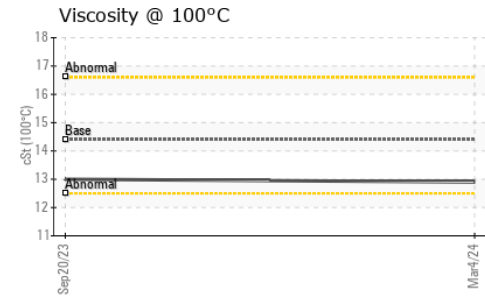
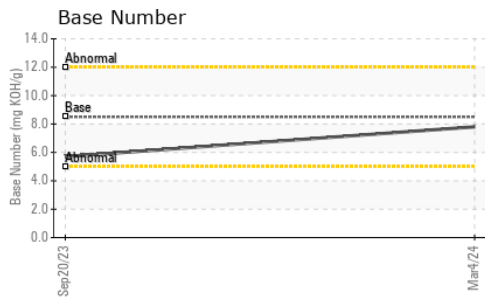
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>13</b>	27	---
Potassium	ppm	ASTM D5185m	>20	<b>22</b>	21	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.9</b>	0.8	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.2</b>	10.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.3</b>	22.9	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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	>158	<b>2</b>	5	---
Boron	ppm	ASTM D5185m	250	<b>7</b>	29	---
Barium	ppm	ASTM D5185m	10	<b>2</b>	4	---
Molybdenum	ppm	ASTM D5185m	100	<b>96</b>	39	---
Manganese	ppm	ASTM D5185m		<b>2</b>	7	---
Magnesium	ppm	ASTM D5185m	450	<b>1393</b>	529	---
Calcium	ppm	ASTM D5185m	3000	<b>1771</b>	1588	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1387</b>	662	---
Zinc	ppm	ASTM D5185m	1350	<b>1850</b>	879	---
Sulfur	ppm	ASTM D5185m	4250	<b>4995</b>	2051	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.8</b>	23.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>7.8</b>	5.7	---
Visc @ 100°C	cSt	ASTM D445	14.4	<b>12.9</b>	13.0	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0867019  
**Lab Number** : 06125386  
**Unique Number** : 10939537  
**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)