



# OIL ANALYSIS REPORT

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

Machine Id  
**12423**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0936251</b>	WC0903469	WC0869170
Sample Date		Client Info		<b>28 Jun 2024</b>	04 Mar 2024	15 Dec 2023
Machine Age	mls	Client Info		<b>446399</b>	405541	379143
Oil Age	mls	Client Info		<b>0</b>	0	25000
Filter Age	mls	Client Info		<b>0</b>	0	25000
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>35</b>	29	43
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>12</b>	11	10
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>4</b>	7	7
Tin	ppm	ASTM D5185m	>15	<b>0</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

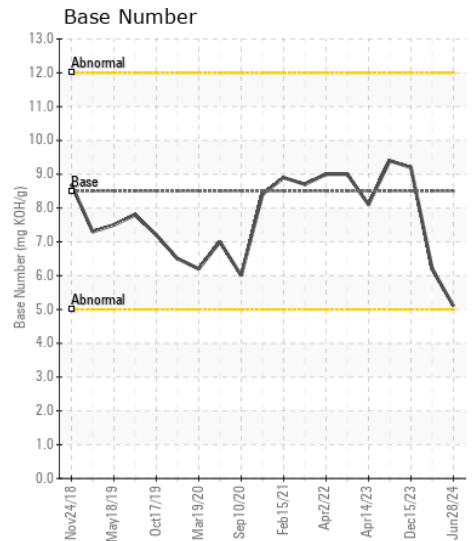
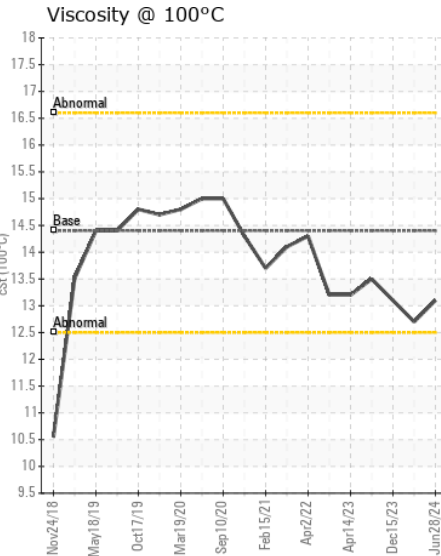
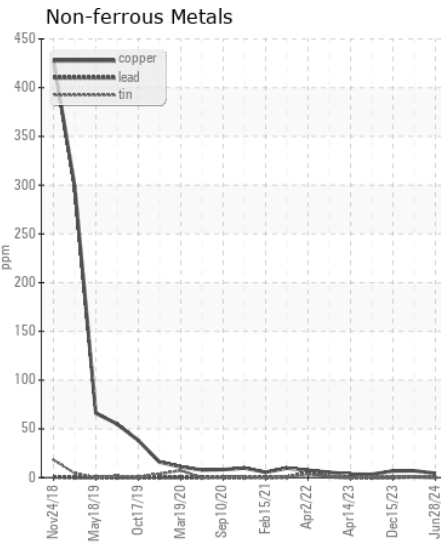
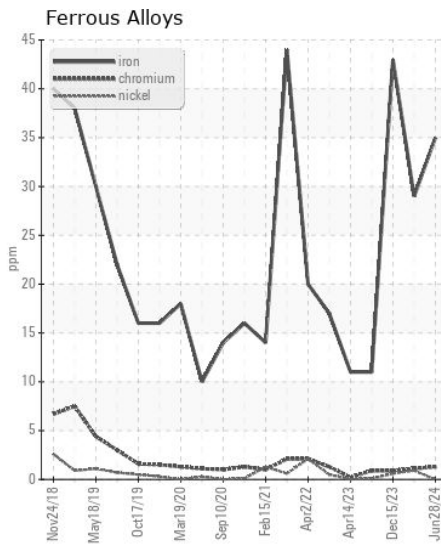
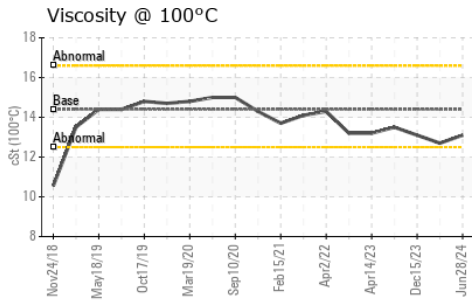
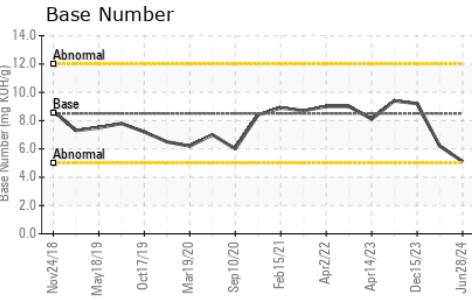
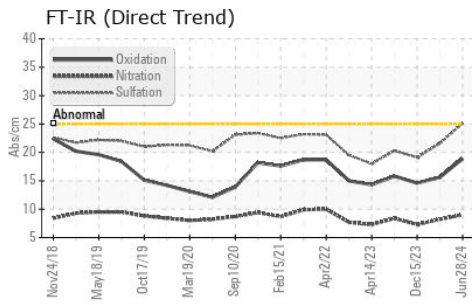
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	7	4
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	6	5
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>0.8</b>	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.0</b>	8.2	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.1</b>	21.6	19.1
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	>158	<b>2</b>	0	<1
Boron	ppm	ASTM D5185m	250	<b>34</b>	142	6
Barium	ppm	ASTM D5185m	10	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m	100	<b>107</b>	109	62
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>475</b>	543	881
Calcium	ppm	ASTM D5185m	3000	<b>1696</b>	1394	998
Phosphorus	ppm	ASTM D5185m	1150	<b>1083</b>	998	986
Zinc	ppm	ASTM D5185m	1350	<b>1400</b>	1170	1197
Sulfur	ppm	ASTM D5185m	4250	<b>3568</b>	3143	3030
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.9</b>	15.6	14.6
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>5.1</b>	6.2	9.2
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.1</b>	12.7	13.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0936251  
**Lab Number** : 06231061  
**Unique Number** : 11114554  
**Test Package** : FLEET

**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)