



# WEAR CHECK

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**46630**  
 Component  
**Diesel Engine**  
 Fluid  
**EXXON 15W40 (--- QTS)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

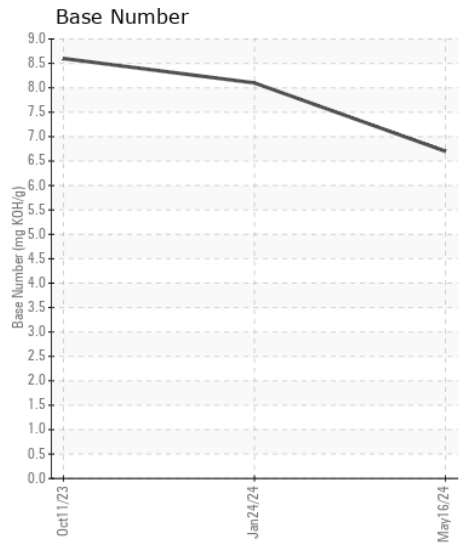
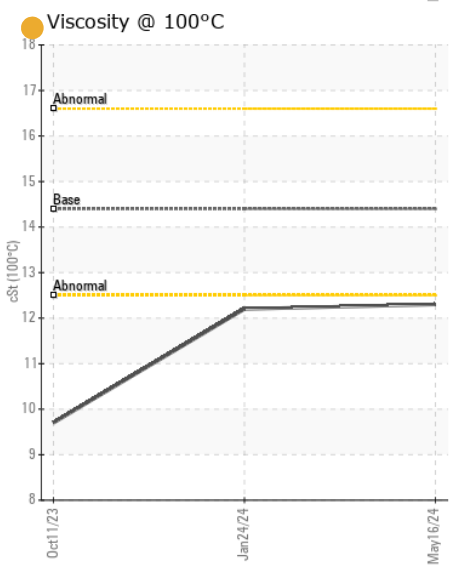
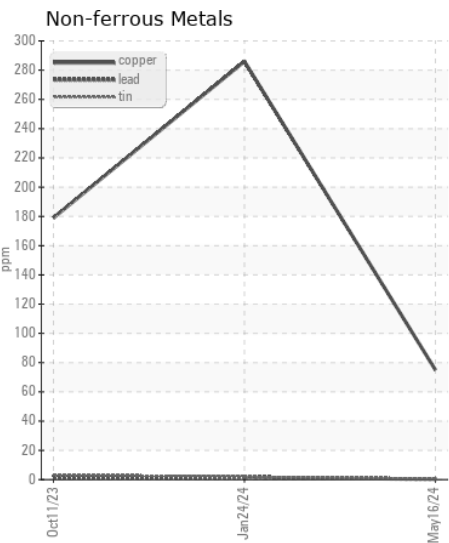
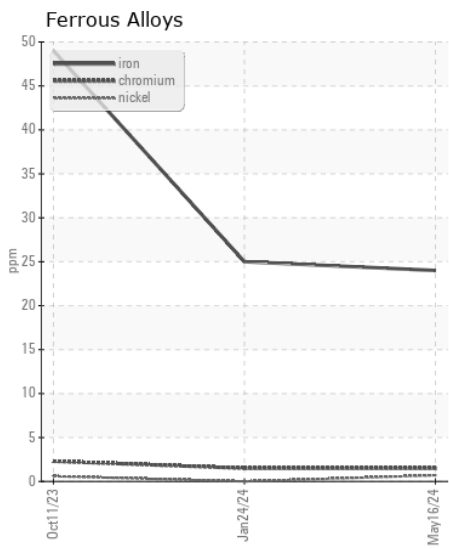
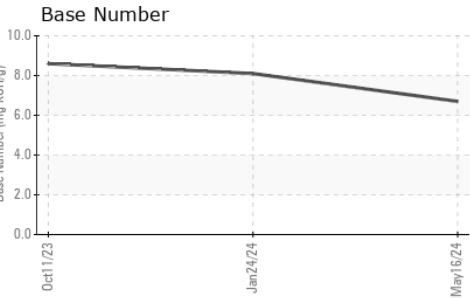
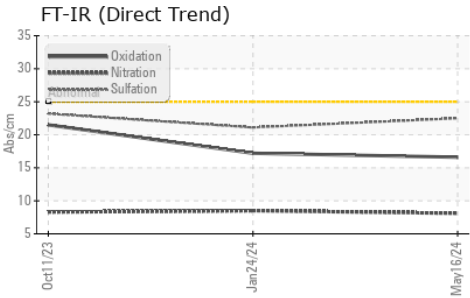
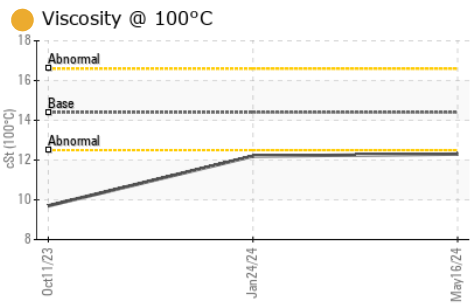
### CONTAMINATION

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

### FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0815970</b>	WC0815967	WC0885631
Sample Date		Client Info		<b>16 May 2024</b>	24 Jan 2024	11 Oct 2023
Machine Age	mls	Client Info		<b>72607</b>	46274	24202
Oil Age	mls	Client Info		<b>0</b>	0	23583
Filter Age	mls	Client Info		<b>0</b>	0	23583
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>ATTENTION</b>	ATTENTION	ATTENTION
Iron	ppm	ASTM D5185m	>100	<b>24</b>	25	49
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>15</b>	21	53
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185m	>330	<b>75</b>	286	179
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	2	3
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	<b>7</b>	4	9
Potassium	ppm	ASTM D5185m	>20	<b>34</b>	49	137
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	0.2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.1</b>	8.5	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.5</b>	21.1	23.2
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
Sodium	ppm	ASTM D5185m		<b>1</b>	2	5
Boron	ppm	ASTM D5185m		<b>194</b>	11	32
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>101</b>	60	41
Manganese	ppm	ASTM D5185m		<b>1</b>	1	4
Magnesium	ppm	ASTM D5185m		<b>501</b>	895	524
Calcium	ppm	ASTM D5185m		<b>1365</b>	1301	1655
Phosphorus	ppm	ASTM D5185m		<b>1043</b>	972	714
Zinc	ppm	ASTM D5185m		<b>1186</b>	1184	874
Sulfur	ppm	ASTM D5185m		<b>2746</b>	2784	2069
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.6</b>	17.2	21.5
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.7</b>	8.1	8.6
Visc @ 100°C	cSt	ASTM D445	14.4	<b>12.3</b>	12.2	9.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0815970  
**Lab Number** : 06213002  
**Unique Number** : 11085866  
**Test Package** : FLEET

**Received** : 17 Jun 2024  
**Tested** : 19 Jun 2024  
**Diagnosed** : 19 Jun 2024 - Angela Borella

**SALEM NATIONALEASE CORPORATION**  
 198 PARK PLAZA DRIVE  
 WINSTON SALEM, NC  
 US 27105

Contact: Audrey Hopkins  
 Audrey.Hopkins@salemcorp.com  
 T: (336)767-9642

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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