



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**15278**  
Component  
**Diesel Engine**  
Fluid  
**EXXON 15W40 (--- GAL)**

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

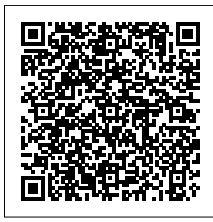
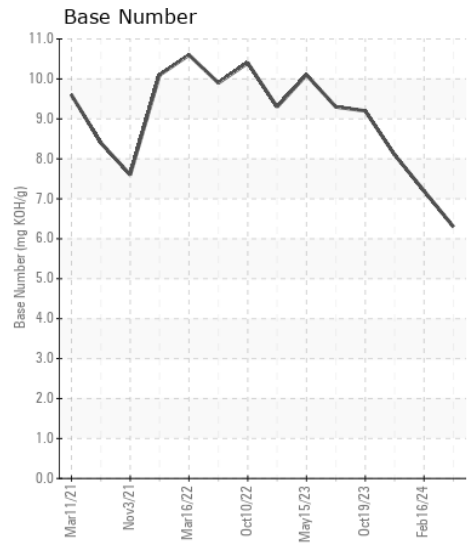
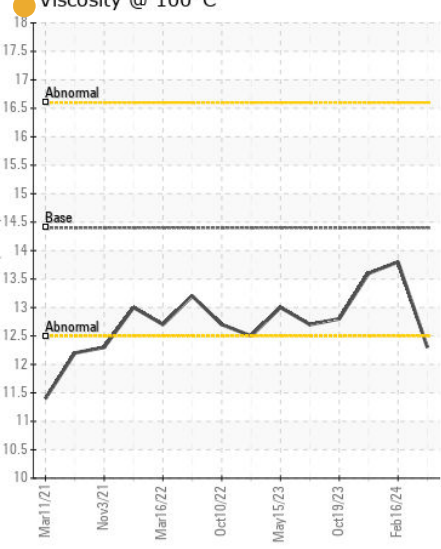
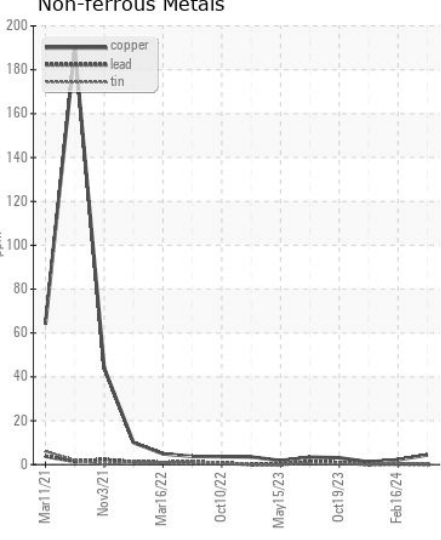
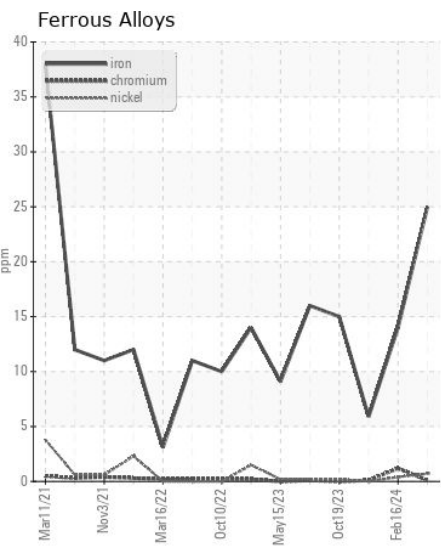
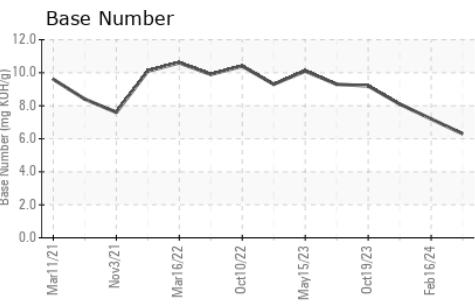
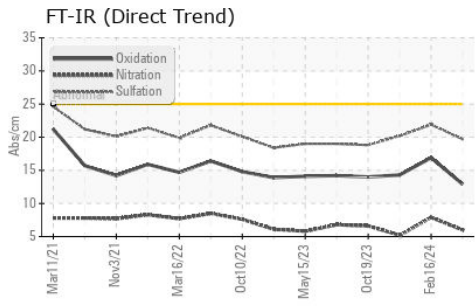
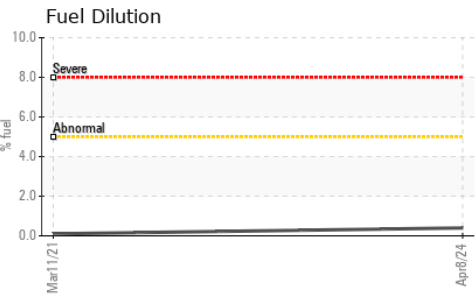
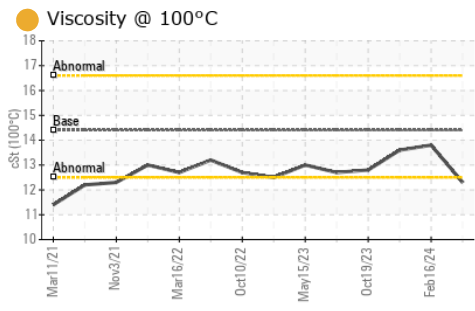
## CONTAMINATION

Fuel content negligible. There is no indication of any contamination 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>WC0903544</b>	WC0841961	WC0858279
Sample Date		Client Info		<b>08 Apr 2024</b>	16 Feb 2024	07 Nov 2023
Machine Age	mls	Client Info		<b>221731</b>	429323	199734
Oil Age	mls	Client Info		<b>11363</b>	0	4760
Filter Age	mls	Client Info		<b>11363</b>	0	4760
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>100	<b>25</b>	14	6
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	10	2
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>330	<b>4</b>	2	1
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
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>4</b>	6	4
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	2
Fuel	%	ASTM D3524	>5	<b>0.4</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>0.2</b>	0.4	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.0</b>	7.9	5.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.7</b>	21.9	20.2
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>&lt;1</b>	2	0
Boron	ppm	ASTM D5185m		<b>324</b>	230	396
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Molybdenum	ppm	ASTM D5185m		<b>72</b>	84	80
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>382</b>	531	428
Calcium	ppm	ASTM D5185m		<b>1203</b>	1299	1233
Phosphorus	ppm	ASTM D5185m		<b>1030</b>	1039	964
Zinc	ppm	ASTM D5185m		<b>1219</b>	1231	1129
Sulfur	ppm	ASTM D5185m		<b>3728</b>	3153	3220
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.9</b>	16.9	14.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.3</b>	7.2	8.1
Visc @ 100°C	cSt	ASTM D445	14.4	<b>12.3</b>	13.8	13.6



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0903544 **Received** : 15 Apr 2024  
**Lab Number** : 06149385 **Tested** : 19 Apr 2024  
**Unique Number** : 10979463 **Diagnosed** : 19 Apr 2024 - Don Baldrige  
**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**SALEM NATIONALEASE CORPORATION**  
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Certificate L2367  
 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)