



# WEAR CHECK

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**9747**  
Component  
**Diesel Engine**  
Fluid  
**EXXON 15W40 (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0933299</b>	WC0903551	WC0885642
Sample Date		Client Info		<b>10 Jun 2024</b>	29 Mar 2024	20 Dec 2023
Machine Age	mls	Client Info		<b>26291</b>	17897	9687
Oil Age	mls	Client Info		<b>8394</b>	8210	8468
Filter Age	mls	Client Info		<b>8394</b>	8210	8468
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>18</b>	24	41
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>17</b>	10	7
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>2</b>	5	35
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

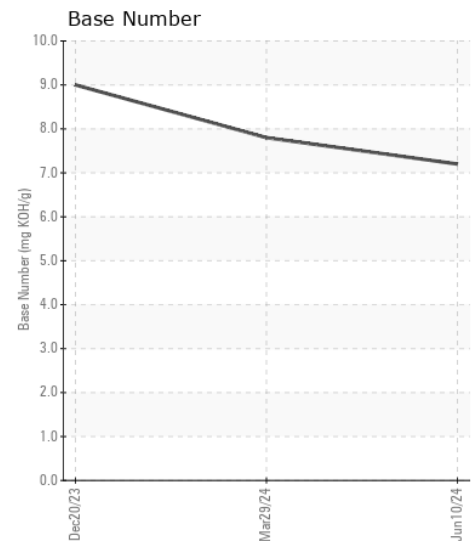
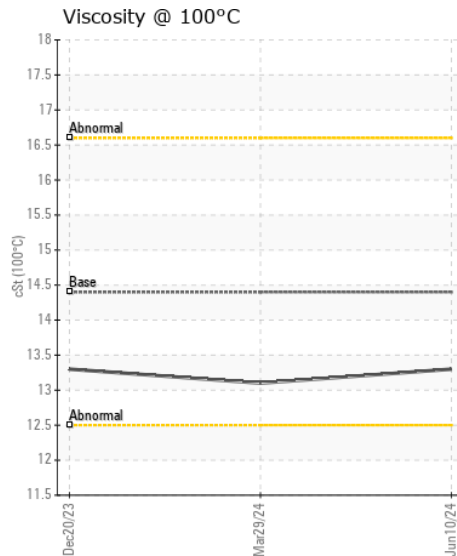
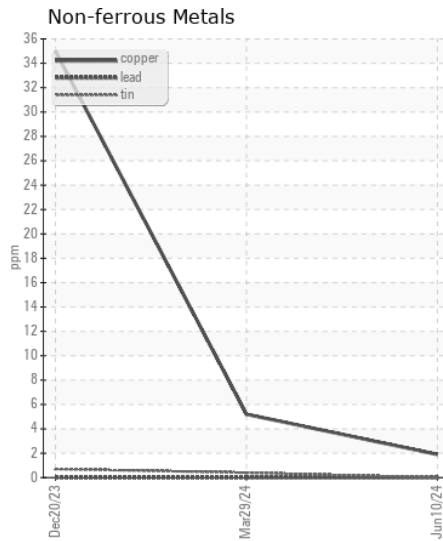
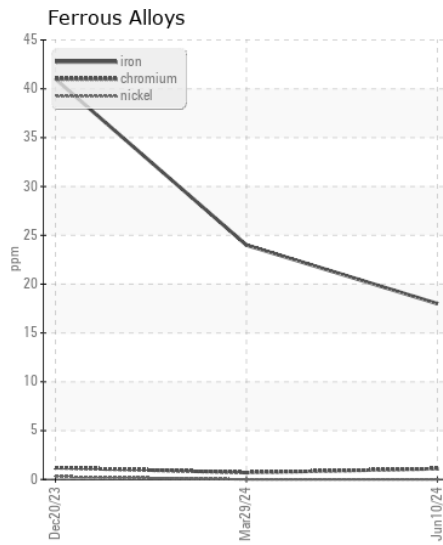
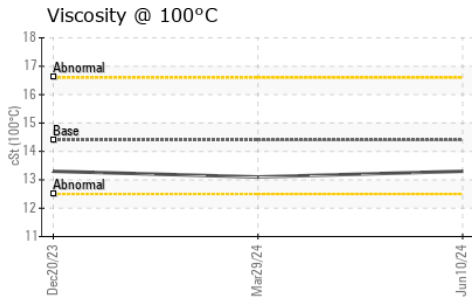
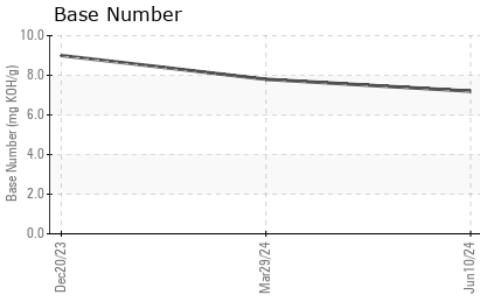
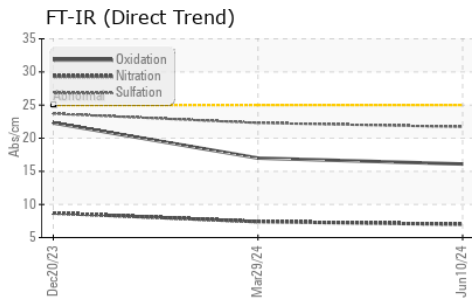
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	11	▲ 31
Potassium	ppm	ASTM D5185m	>20	<b>40</b>	28	29
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>0.3</b>	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.0</b>	7.4	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.7</b>	22.3	23.7
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		<b>2</b>	1	2
Boron	ppm	ASTM D5185m		<b>329</b>	374	44
Barium	ppm	ASTM D5185m		<b>0</b>	<1	14
Molybdenum	ppm	ASTM D5185m		<b>92</b>	84	39
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	5
Magnesium	ppm	ASTM D5185m		<b>423</b>	492	499
Calcium	ppm	ASTM D5185m		<b>1496</b>	1476	1531
Phosphorus	ppm	ASTM D5185m		<b>1064</b>	1127	785
Zinc	ppm	ASTM D5185m		<b>1290</b>	1316	834
Sulfur	ppm	ASTM D5185m		<b>3724</b>	3831	2675
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.1</b>	17.0	22.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.2</b>	7.8	9.0
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.3</b>	13.1	13.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0933299  
**Lab Number** : 06211124  
**Unique Number** : 11083988  
**Test Package** : FLEET

**Received** : 14 Jun 2024  
**Tested** : 19 Jun 2024  
**Diagnosed** : 19 Jun 2024 - Sean Felton

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

Contact: Audrey Hopkins  
 Audrey.Hopkins@salemcorp.com

T: (336)767-9642

F: x:

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)