



# WEAR CHECK

## OIL ANALYSIS REPORT

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

Machine Id  
**FSP137690 (S/N 041694)**  
 Component  
**Diesel Engine**  
 Fluid  
**EXXON 15W40 (28 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0903315</b>	WC0717742	WC0684327
Sample Date		Client Info		<b>28 Feb 2024</b>	01 Sep 2022	14 Apr 2022
Machine Age	mls	Client Info		<b>172120</b>	13000	15000
Oil Age	mls	Client Info		<b>0</b>	0	0
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>32</b>	67	89
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>10</b>	12	26
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>1</b>	3	16
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

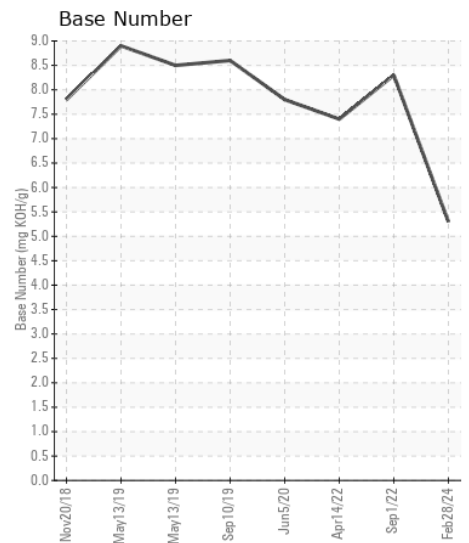
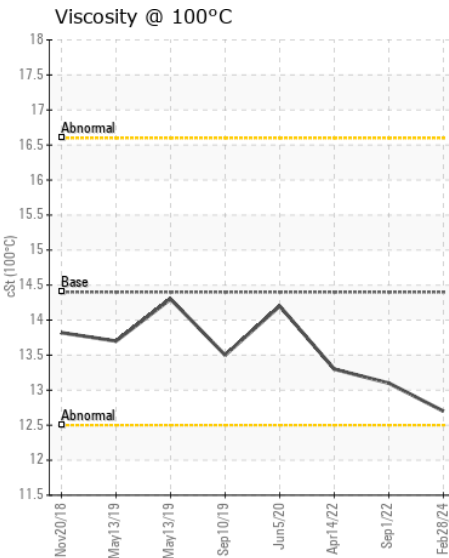
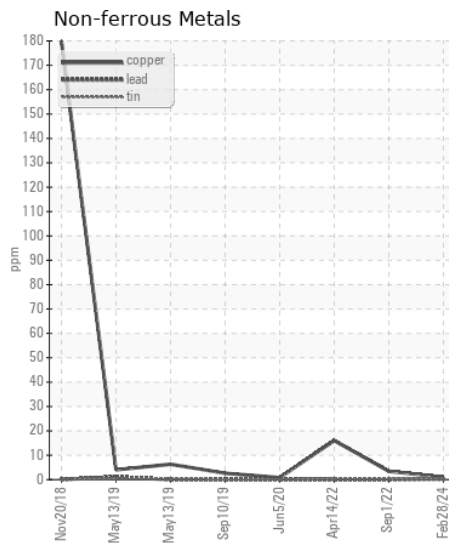
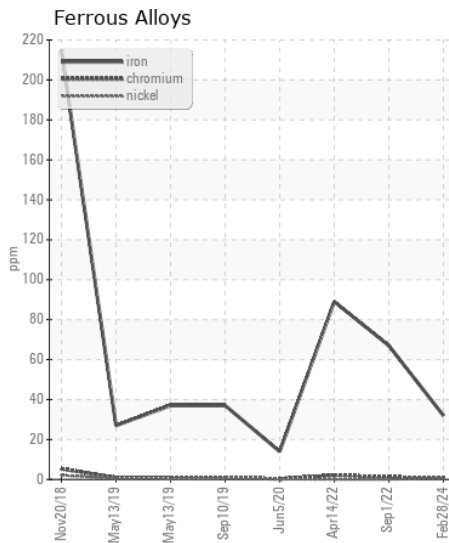
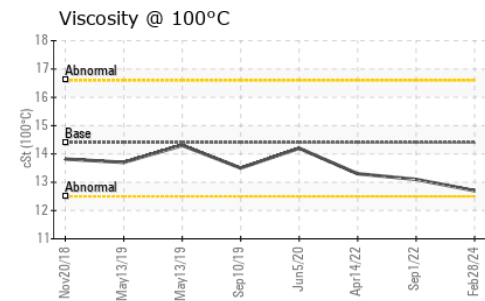
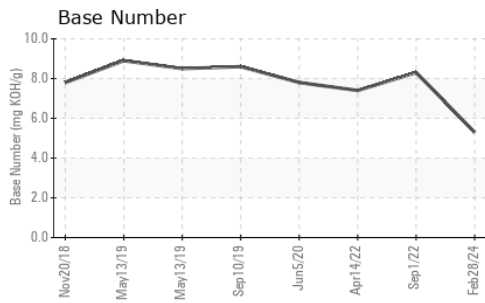
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	6	8
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	7	28
Fuel		WC Method	>3.0	<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	>6	<b>0.8</b>	1.3	1.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.4</b>	15.2	14.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.4</b>	27.9	28.6
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	4
Boron	ppm	ASTM D5185m		<b>132</b>	5	6
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>91</b>	101	88
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>552</b>	907	1049
Calcium	ppm	ASTM D5185m		<b>1338</b>	1169	1251
Phosphorus	ppm	ASTM D5185m		<b>1044</b>	975	1051
Zinc	ppm	ASTM D5185m		<b>1227</b>	1149	1283
Sulfur	ppm	ASTM D5185m		<b>3287</b>	3582	2817
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.9</b>	22.1	22.7
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.3</b>	8.3	7.4
Visc @ 100°C	cSt	ASTM D445	14.4	<b>12.7</b>	13.1	13.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0903315 **Received** : 18 Mar 2024  
**Lab Number** : 06121488 **Tested** : 19 Mar 2024  
**Unique Number** : 10930321 **Diagnosed** : 21 Mar 2024 - Jonathan Hester  
**Test Package** : FLEET

**FRESHPOINT**  
 8801 EXCHANGE DRVIE  
 ORLANDO, FL  
 US 32809  
 Contact: CRAIG EVANS  
 evans\_craig@sbcglobal.net

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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F: