



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**1807**  
Component  
**Rear Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0925706</b>	WC0883008	WC0887372
Sample Date		Client Info		<b>28 Mar 2024</b>	06 Feb 2024	02 Jan 2024
Machine Age	hrs	Client Info		<b>24989</b>	24408	23887
Oil Age	hrs	Client Info		<b>581</b>	521	556
Filter Age	hrs	Client Info		<b>0</b>	521	556
Oil Changed		Client Info		<b>Changed</b>	Changed	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 D5185(m)	>100	<b>15</b>	11	11
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>330	<b>3</b>	2	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

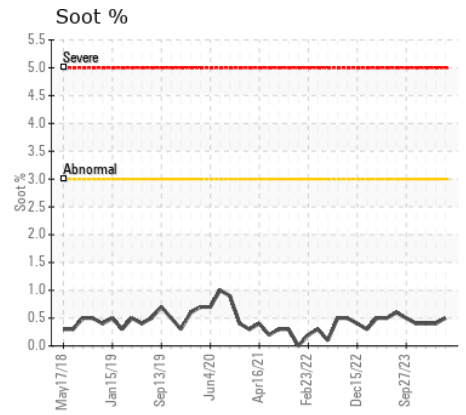
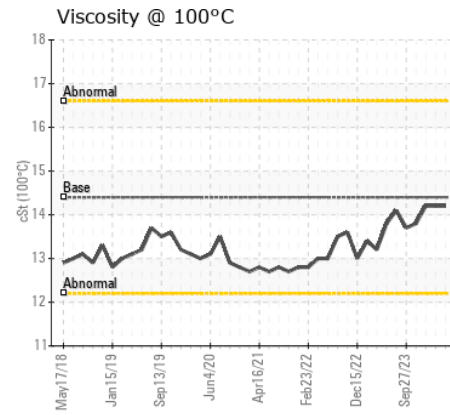
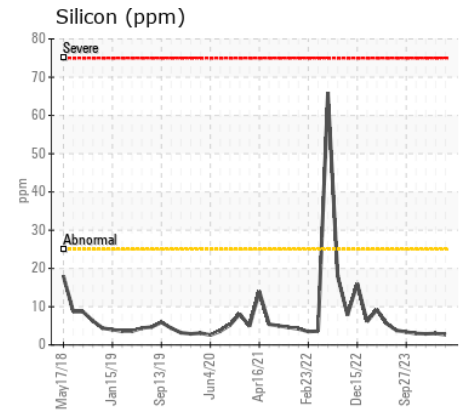
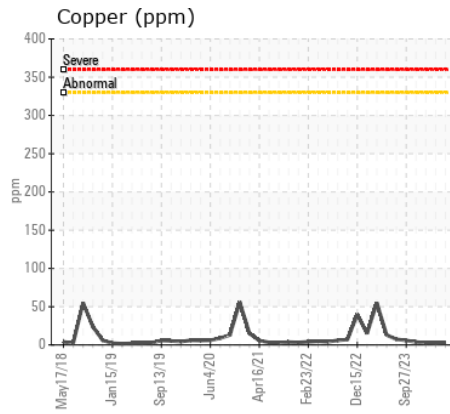
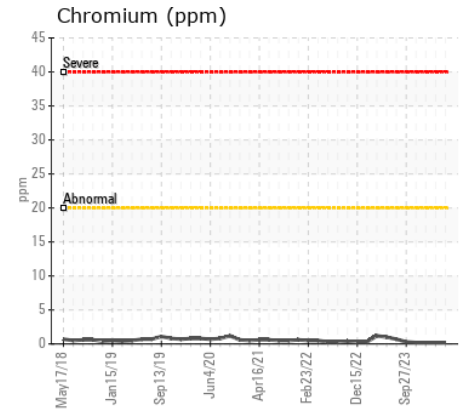
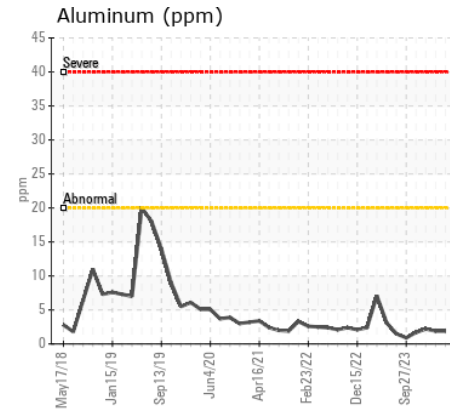
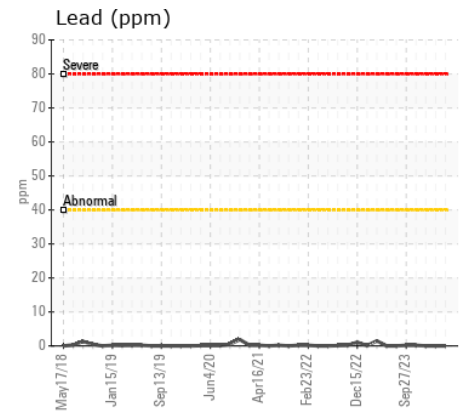
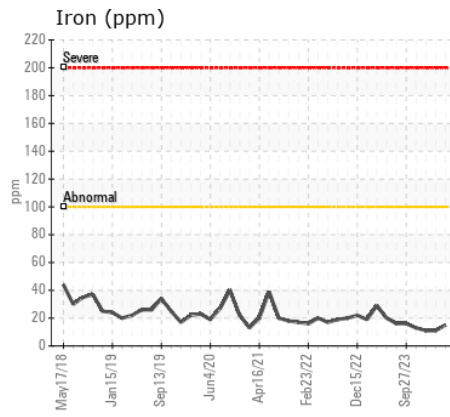
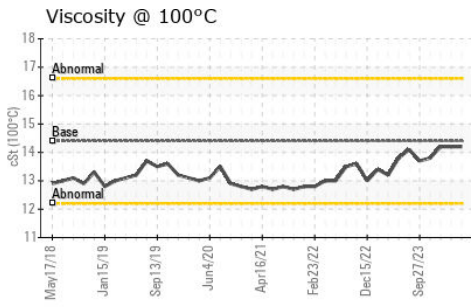
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0
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>0.5</b>	0.4	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.7</b>	9.2	9.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.1</b>	22.0	22.9
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>158	<b>1</b>	<1	1
Boron	ppm	ASTM D5185(m)	250	<b>2</b>	<1	2
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>60</b>	58	58
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	450	<b>993</b>	968	948
Calcium	ppm	ASTM D5185(m)	3000	<b>1064</b>	1062	1054
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1001</b>	1010	980
Zinc	ppm	ASTM D5185(m)	1350	<b>1214</b>	1203	1163
Sulfur	ppm	ASTM D5185(m)	4250	<b>2463</b>	2671	2608
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.1</b>	19.8	22.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>14.2</b>	14.2	14.2



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0925706 **Received** : 03 Apr 2024  
**Lab Number** : 02626346 **Tested** : 03 Apr 2024  
**Unique Number** : 5759478 **Diagnosed** : 03 Apr 2024 - Wes Davis  
**Test Package** : MOB 1

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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.