



# OIL ANALYSIS REPORT

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

Machine Id  
**1502**  
 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>WC0905421</b>	WC0887371	WC0864970
Sample Date		Client Info		<b>20 Feb 2024</b>	02 Jan 2024	25 Oct 2023
Machine Age	hrs	Client Info		<b>31257</b>	30448	30212
Oil Age	hrs	Client Info		<b>460</b>	0	418
Filter Age	hrs	Client Info		<b>460</b>	0	418
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>32</b>	30	14
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	5	0
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	4	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	3	33
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

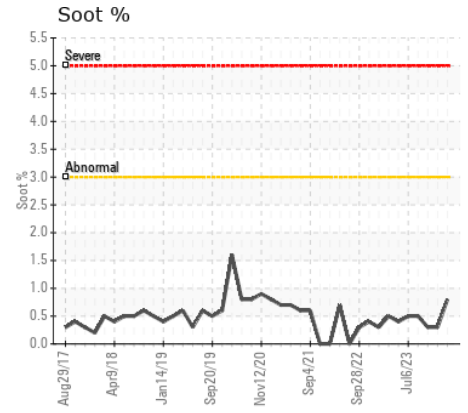
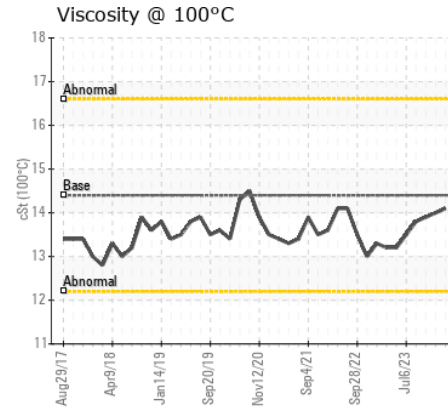
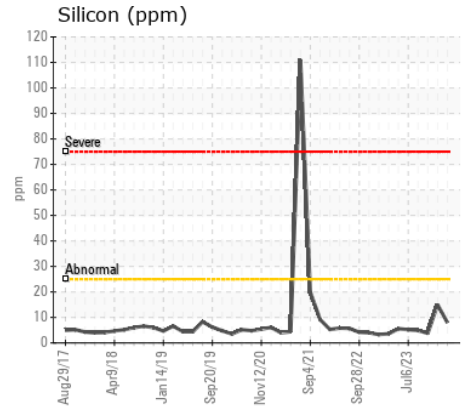
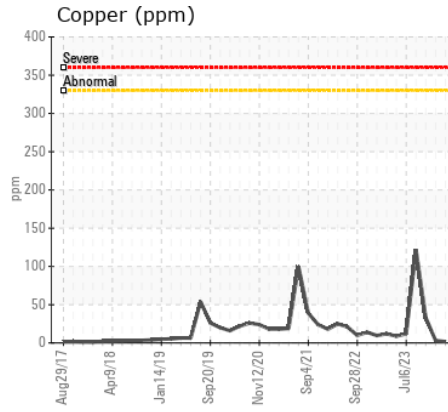
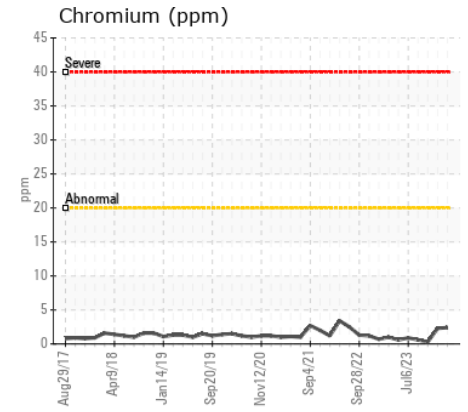
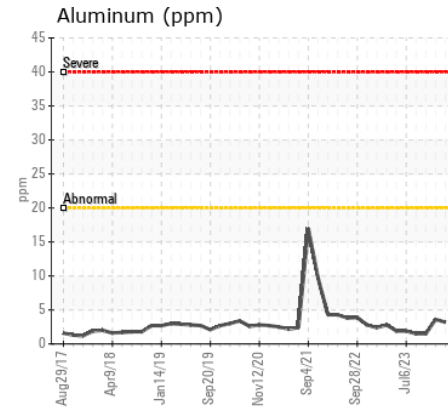
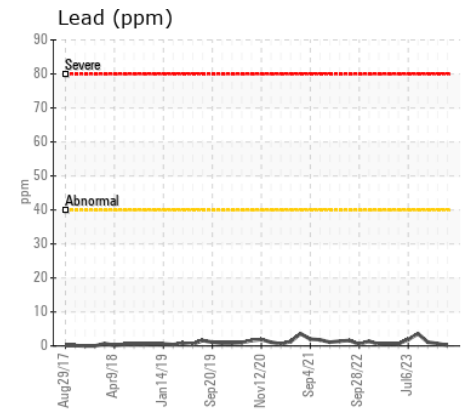
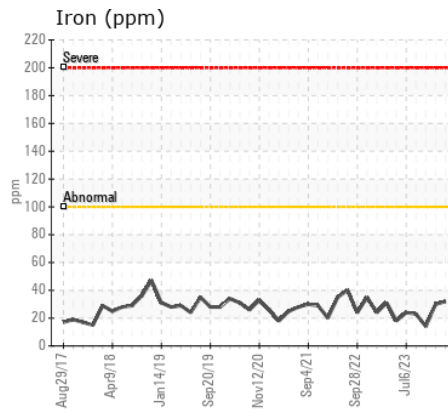
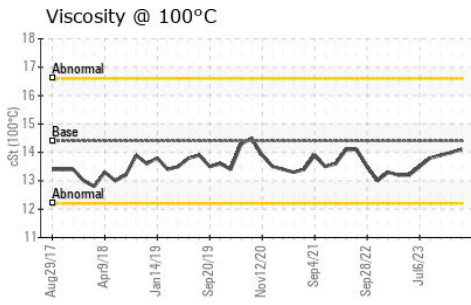
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>8</b>	15	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	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>0.8</b>	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.9</b>	7.1	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>21.2</b>	20.4	24.8
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>3</b>	6	2
Boron	ppm	ASTM D5185(m)	250	<b>1</b>	3	2
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>57</b>	57	61
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	3	0
Magnesium	ppm	ASTM D5185(m)	450	<b>926</b>	934	969
Calcium	ppm	ASTM D5185(m)	3000	<b>1008</b>	1027	1052
Phosphorus	ppm	ASTM D5185(m)	1150	<b>975</b>	983	965
Zinc	ppm	ASTM D5185(m)	1350	<b>1133</b>	1130	1208
Sulfur	ppm	ASTM D5185(m)	4250	<b>2621</b>	2669	2274
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.9</b>	16.6	25.1
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>14.1</b>	14.0	13.9



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0905421  
**Lab Number** : 02618591  
**Unique Number** : 5735701  
**Test Package** : MOB 1  
**Received** : 28 Feb 2024  
**Tested** : 28 Feb 2024  
**Diagnosed** : 28 Feb 2024 - Wes Davis

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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.