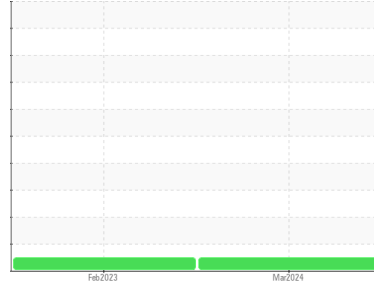


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**25082**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PC0088426</b>	PC0067233	---
Sample Date	Client Info			<b>11 Mar 2024</b>	16 Feb 2023	---
Machine Age	hrs	Client Info		<b>5247</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	6	---
Oil Changed	Client Info			<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0		<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2		<b>NEG</b>	NEG	---
Glycol	WC Method			<b>NEG</b>	NEG	---

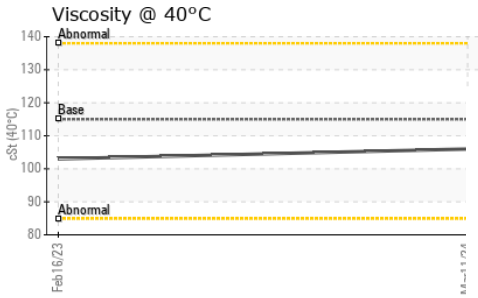
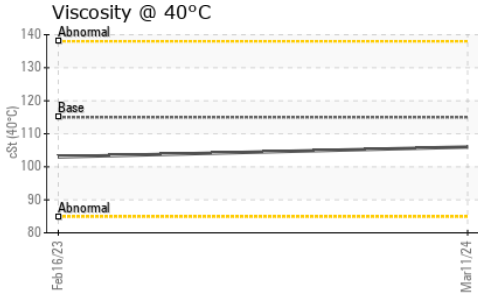
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	<b>19</b>	44	---
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>15	<b>2</b>	4	---
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	<1	---
Copper	ppm	ASTM D5185(m)	>100	<b>2</b>	9	---
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	<b>2</b>	17	---
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	100	<b>61</b>	74	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	450	<b>939</b>	481	---
Calcium	ppm	ASTM D5185(m)	3000	<b>1043</b>	1684	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>970</b>	1004	---
Zinc	ppm	ASTM D5185(m)	1350	<b>1174</b>	1122	---
Sulfur	ppm	ASTM D5185(m)	4250	<b>2464</b>	2891	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>7</b>	18	---
Sodium	ppm	ASTM D5185(m)	>158	<b>2</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	<b>0.8</b>	0.7	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.1</b>	10.1	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>22.3</b>	22.4	---

# OIL ANALYSIS REPORT

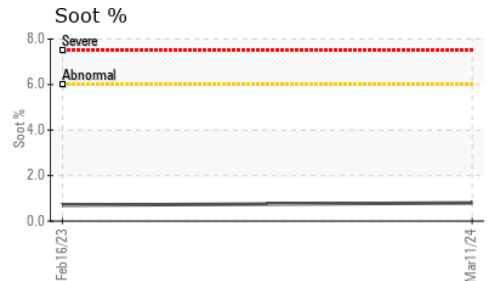
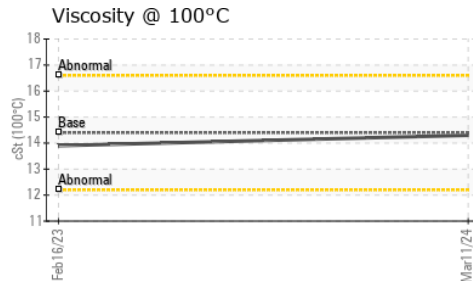
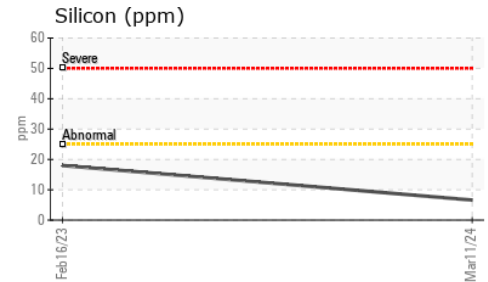
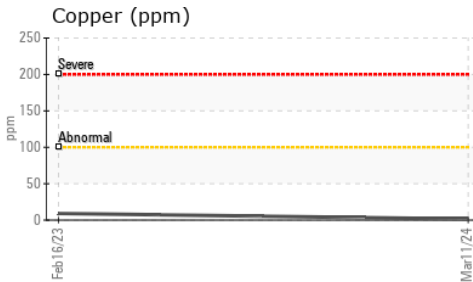
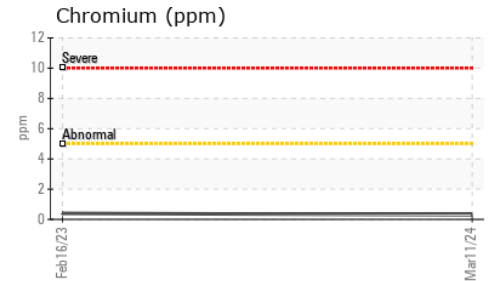
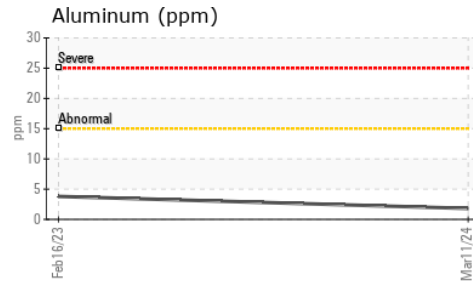
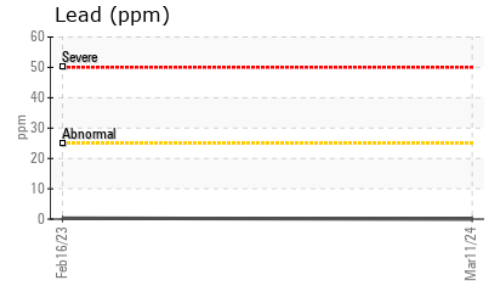
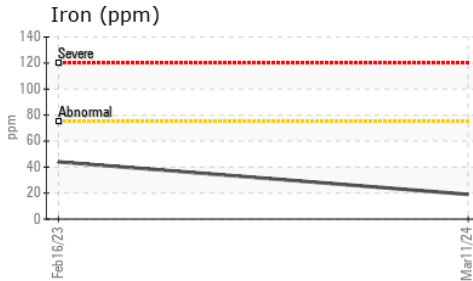


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>18.7</b>	18.3	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---
Free Water	scalar	Visual*		<b>NEG</b>	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	115	<b>106</b>	103	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>14.3</b>	13.9	---
Viscosity Index (VI)	Scale	ASTM D2270*	126	<b>137</b>	136	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0088426 **Received** : 26 Mar 2024  
**Lab Number** : **02624583** **Tested** : 26 Mar 2024  
**Unique Number** : 5749702 **Diagnosed** : 26 Mar 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**TORONTO FIRE SERVICES**  
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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.