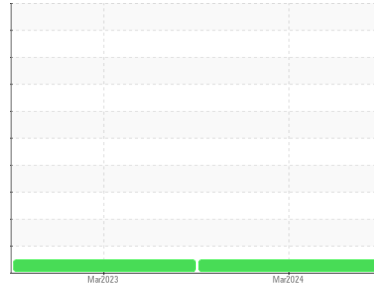


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**CROMBRE DEVELOPMENTS [250735]**  
Machine Id  
**362073-1-1-0713**  
Component  
**Gasoline Engine**  
Fluid  
**SHELL ROTELLA T 10W30 (--- GAL)**

**DIAGNOSIS**

**Recommendation**

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

Fuel content negligible. There is no indication of any contamination in the oil.

**Fluid Condition**

Additive levels indicate the addition of a different brand, or type of oil. 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>WA0021044</b>	WA0019249	---
Sample Date	Client Info			<b>19 Mar 2024</b>	24 Mar 2023	---
Machine Age	hrs	Client Info		<b>307</b>	282	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed	Client Info			<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method	>0.2		<b>NEG</b>	NEG	---
Glycol	WC Method			<b>NEG</b>	NEG	---

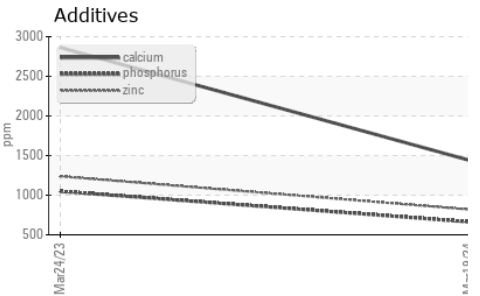
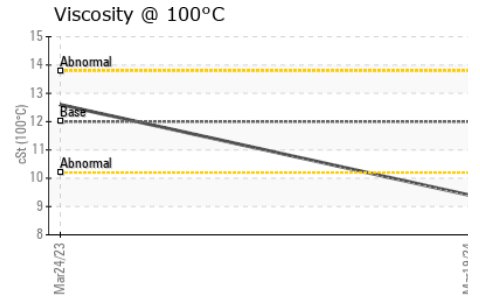
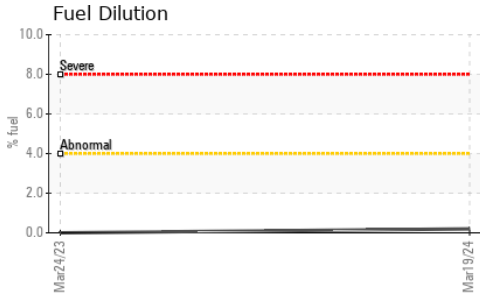
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>150	<b>5</b>	19	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>40	<b>2</b>	2	---
Lead	ppm	ASTM D5185(m)	>50	<b>0</b>	2	---
Copper	ppm	ASTM D5185(m)	>155	<b>&lt;1</b>	4	---
Tin	ppm	ASTM D5185(m)	>10	<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)		<b>65</b>	30	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>135</b>	2	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	2	---
Magnesium	ppm	ASTM D5185(m)		<b>402</b>	13	---
Calcium	ppm	ASTM D5185(m)		<b>1440</b>	2863	---
Phosphorus	ppm	ASTM D5185(m)		<b>663</b>	1048	---
Zinc	ppm	ASTM D5185(m)		<b>819</b>	1238	---
Sulfur	ppm	ASTM D5185(m)		<b>1777</b>	3186	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	<b>20</b>	36	---
Sodium	ppm	ASTM D5185(m)	>400	<b>2</b>	7	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	5	---
Fuel	%	ASTM D7593*	>4.0	<b>0.2</b>	<1.0	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.9</b>	12.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>16.5</b>	31.4	---

# OIL ANALYSIS REPORT

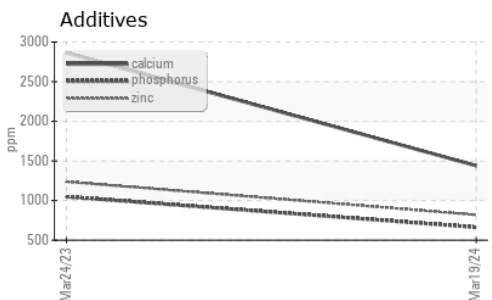
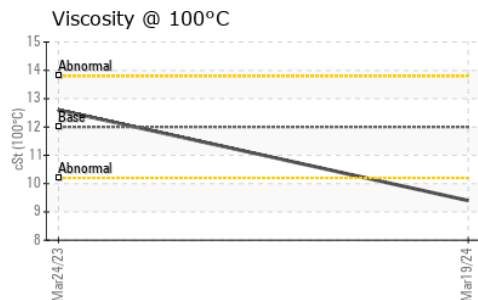
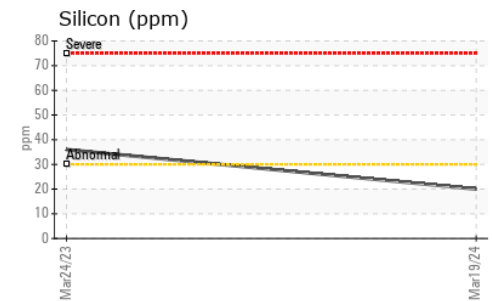
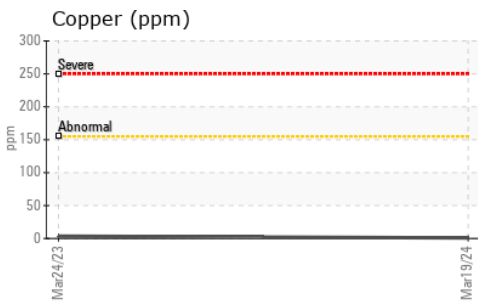
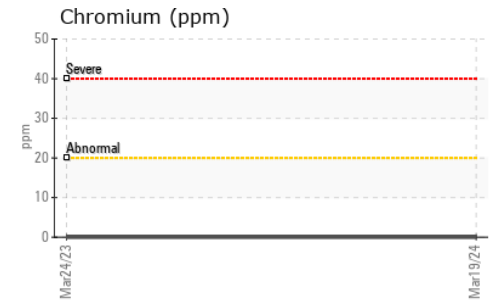
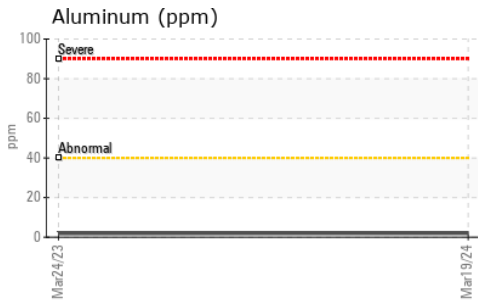
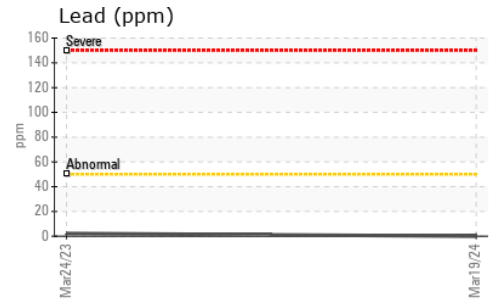
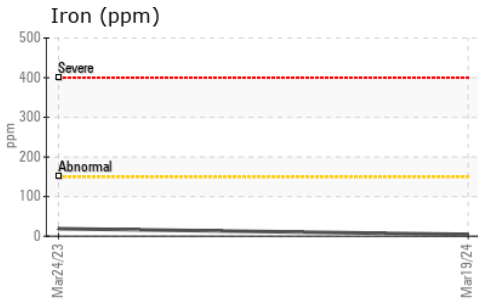


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>9.5</b>	23.5	---

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 @ 100°C	cSt	ASTM D7279(m)	12.	<b>9.4</b>	12.6	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0021044 **Received** : 26 Mar 2024  
**Lab Number** : **02624646** **Tested** : 27 Mar 2024  
**Unique Number** : 5749765 **Diagnosed** : 27 Mar 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

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.

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