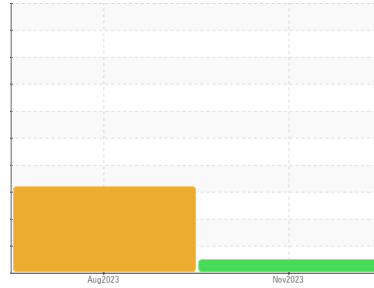




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
9743
 Component
Diesel Engine
 Fluid
SHELL ROTELLA T 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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			WC0853104	WC0853324	---
Sample Date	Client Info			25 Nov 2023	29 Aug 2023	---
Machine Age	kms	Client Info		52111	0	---
Oil Age	kms	Client Info		0	0	---
Oil Changed	Client Info			Changed	N/A	---
Sample Status				NORMAL	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	<1.0	---
Water	WC Method	>0.2		NEG	NEG	---
Glycol	WC Method			NEG	0.0	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	32	▲ 118	---
Chromium	ppm	ASTM D5185(m)	>20	<1	3	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	6	▲ 17	---
Lead	ppm	ASTM D5185(m)	>40	1	5	---
Copper	ppm	ASTM D5185(m)	>330	10	54	---
Tin	ppm	ASTM D5185(m)	>15	1	6	---
Antimony	ppm	ASTM D5185(m)		0	0	---
Vanadium	ppm	ASTM D5185(m)		0	<1	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

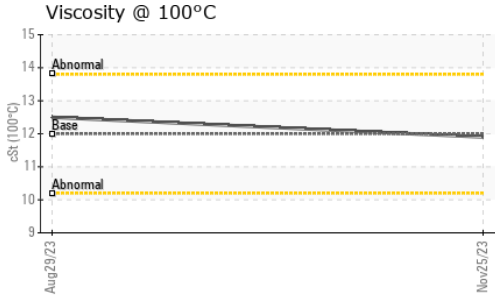
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		44	28	---
Barium	ppm	ASTM D5185(m)		<1	2	---
Molybdenum	ppm	ASTM D5185(m)		51	4	---
Manganese	ppm	ASTM D5185(m)		<1	3	---
Magnesium	ppm	ASTM D5185(m)		448	651	---
Calcium	ppm	ASTM D5185(m)		1763	1429	---
Phosphorus	ppm	ASTM D5185(m)		985	807	---
Zinc	ppm	ASTM D5185(m)		1143	933	---
Sulfur	ppm	ASTM D5185(m)		2815	2493	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	9	▲ 28	---
Sodium	ppm	ASTM D5185(m)		2	7	---
Potassium	ppm	ASTM D5185(m)	>20	2	7	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.7	1.6	---
Nitration	Abs/cm	ASTM D7624*	>20	11.4	17.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.2	34.2	---

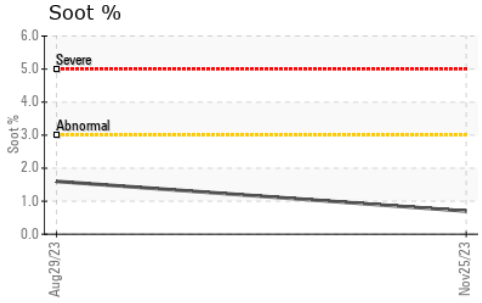
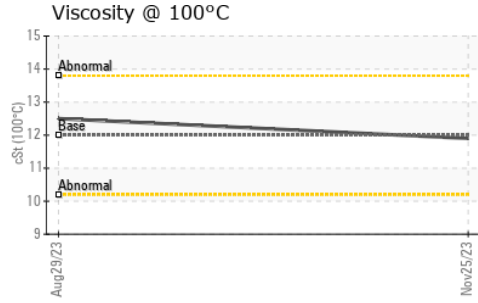
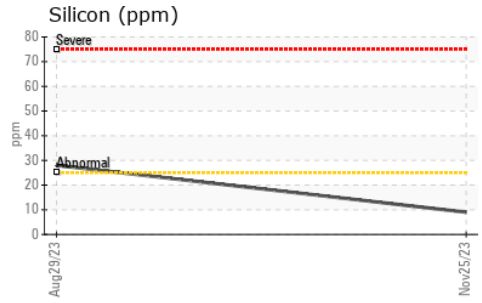
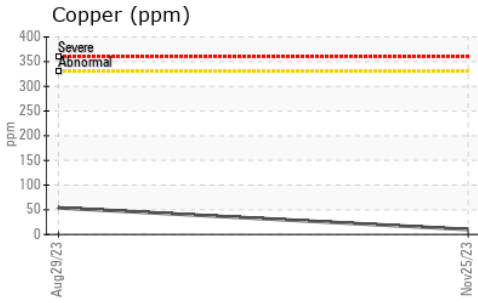
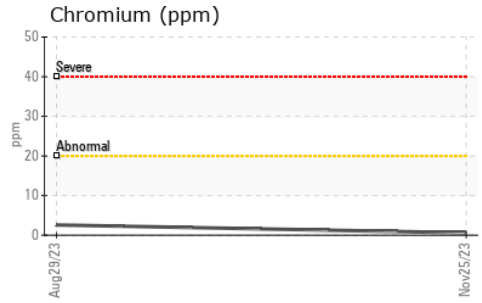
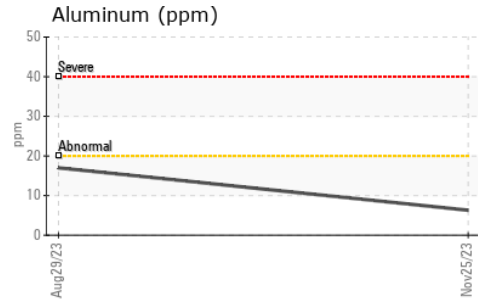
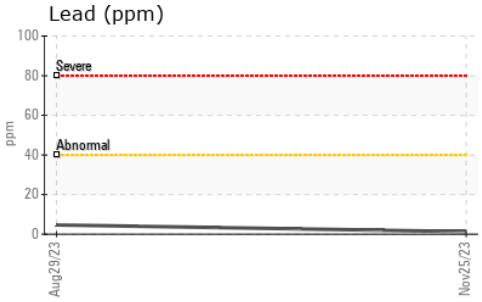
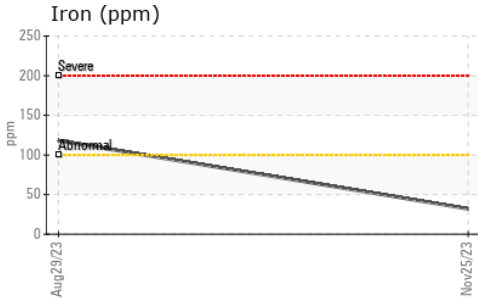


OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	21.6	33.4	---
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---
Free Water	scalar	Visual*		NEG	NEG	---
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.	11.9	12.5	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0853104 **Received** : 09 Jan 2024
Lab Number : **02607427** **Diagnosed** : 09 Jan 2024
Unique Number : 5708513 **Diagnostician** : Wes Davis
Test Package : MOB 1

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 Mississauga, ON
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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.