



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[44626238]

Machine Id
R272

Component
Diesel Engine

Fluid
SHELL ROTELLA T 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0554143	WC0553581	---
Sample Date		Client Info		14 May 2024	03 Jan 2024	---
Machine Age	kms	Client Info		493568	451693	---
Oil Age	kms	Client Info		0	0	---
Filter Age	kms	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	32	44	---
Chromium	ppm	ASTM D5185(m)	>20	2	6	---
Nickel	ppm	ASTM D5185(m)	>2	0	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	11	14	---
Lead	ppm	ASTM D5185(m)	>40	<1	2	---
Copper	ppm	ASTM D5185(m)	>330	2	3	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

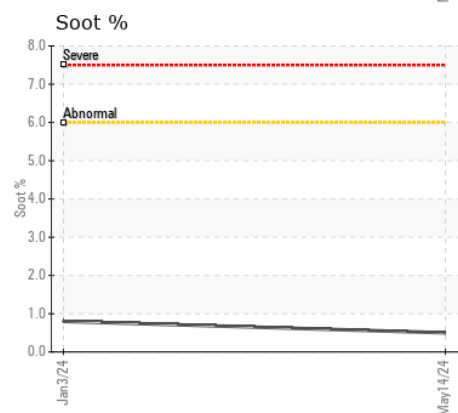
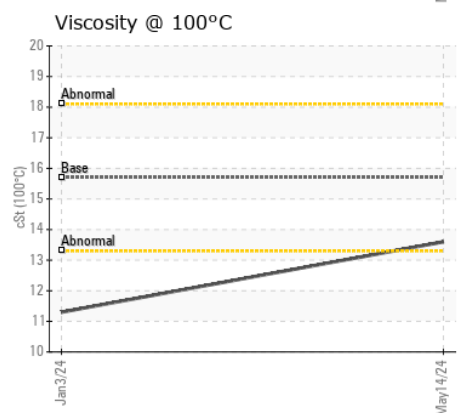
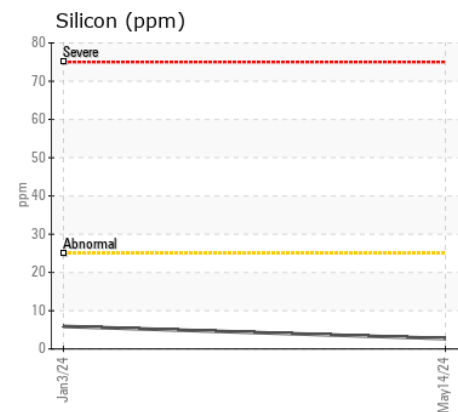
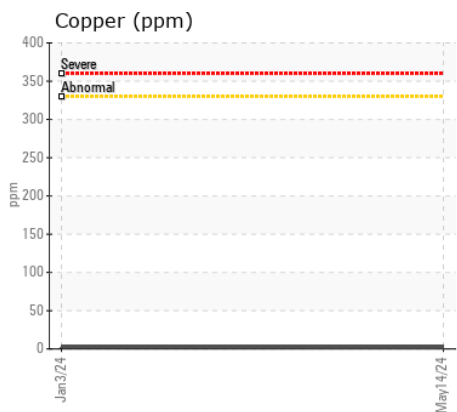
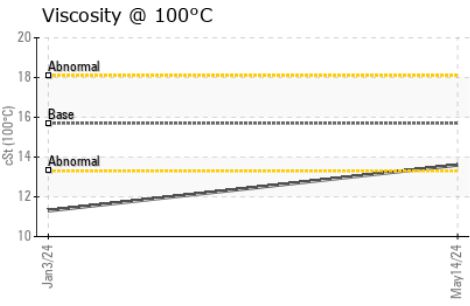
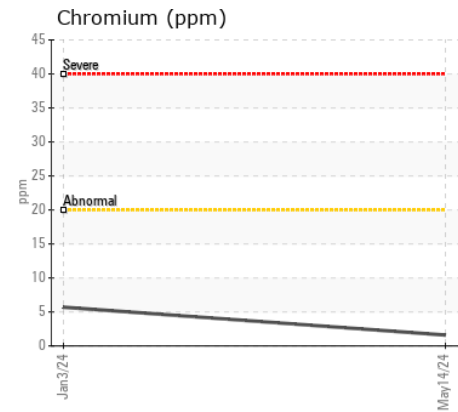
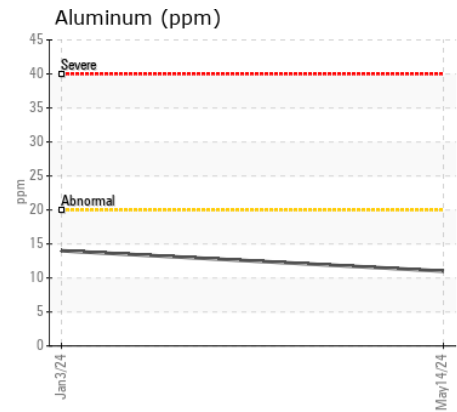
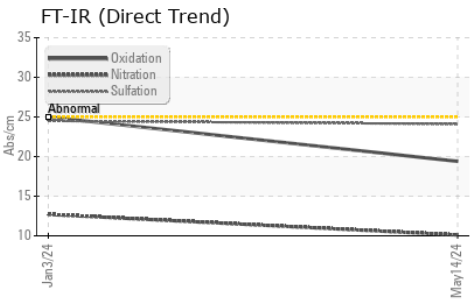
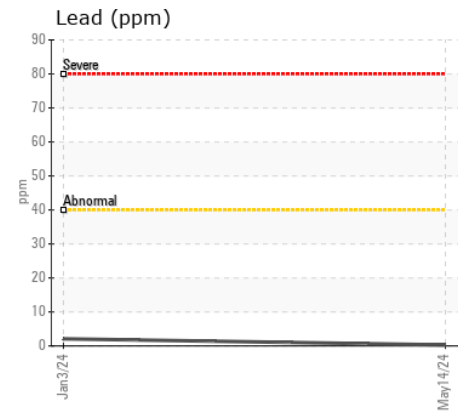
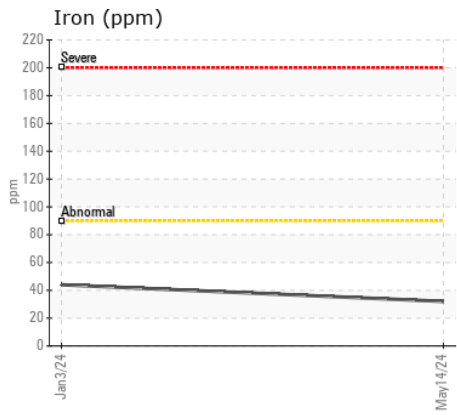
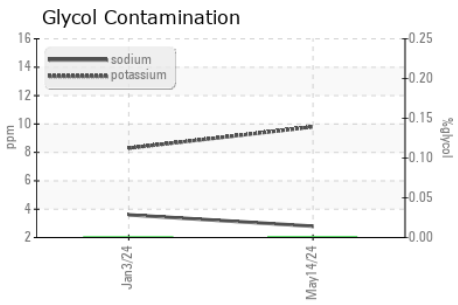
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	6	---
Potassium	ppm	ASTM D5185(m)	>20	10	8	---
Fuel		WC Method	>3.0	<1.0	▲ 1.9	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol	%	ASTM D7922*		0.0	0.0	---
Soot %	%	ASTM D7844*	>6	0.5	0.8	---
Nitration	Abs/cm	ASTM D7624*	>20	10.1	12.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.1	24.5	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		3	4	---
Boron	ppm	ASTM D5185(m)	35	104	18	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0	13	41	---
Manganese	ppm	ASTM D5185(m)	0	<1	<1	---
Magnesium	ppm	ASTM D5185(m)	10	91	495	---
Calcium	ppm	ASTM D5185(m)	2340	2068	1679	---
Phosphorus	ppm	ASTM D5185(m)	1110	942	725	---
Zinc	ppm	ASTM D5185(m)	1210	1099	863	---
Sulfur	ppm	ASTM D5185(m)	3890	2730	2219	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.4	25.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	13.6	▲ 11.3	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0554143 **Received** : 16 May 2024
Lab Number : 02635968 **Tested** : 16 May 2024
Unique Number : 5785130 **Diagnosed** : 16 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

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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.