



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**374004**  
 Component  
**Diesel Engine**  
 Fluid  
**SHELL ROTELLA T 10W30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0083981	---	---
Sample Date		Client Info		19 Mar 2024	---	---
Machine Age	mls	Client Info		453140	---	---
Oil Age	mls	Client Info		22000	---	---
Filter Age	mls	Client Info		22000	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	36	---	---
Chromium	ppm	ASTM D5185(m)	>20	0	---	---
Nickel	ppm	ASTM D5185(m)	>4	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	4	---	---
Lead	ppm	ASTM D5185(m)	>40	0	---	---
Copper	ppm	ASTM D5185(m)	>330	5	---	---
Tin	ppm	ASTM D5185(m)	>15	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

**CONTAMINATION**

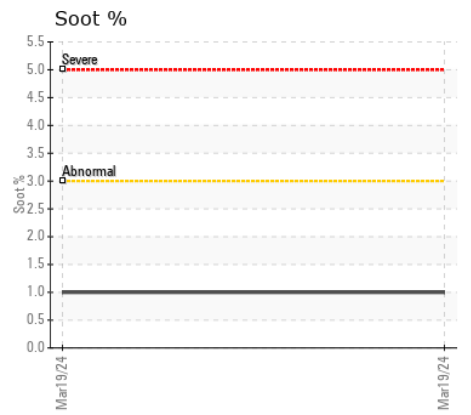
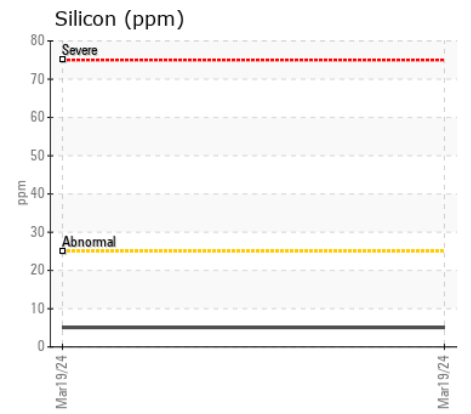
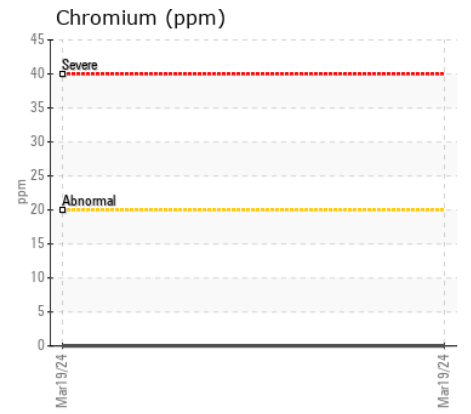
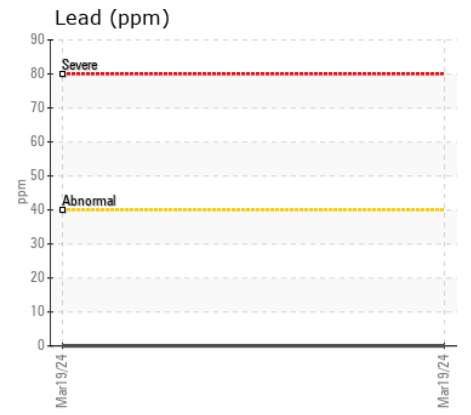
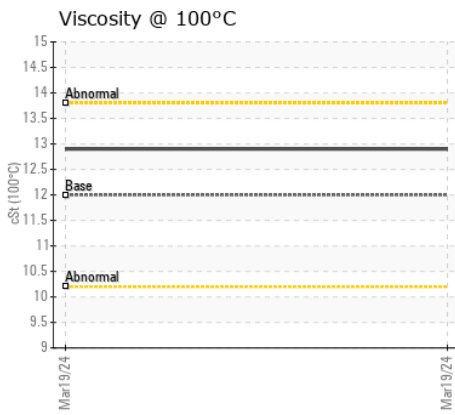
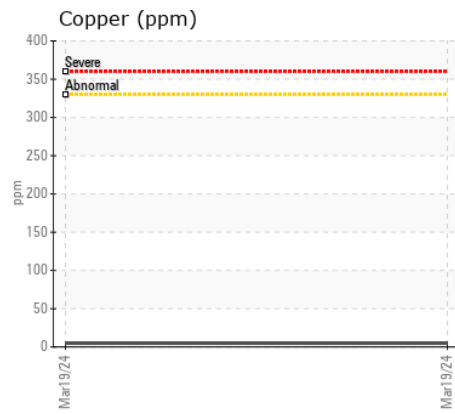
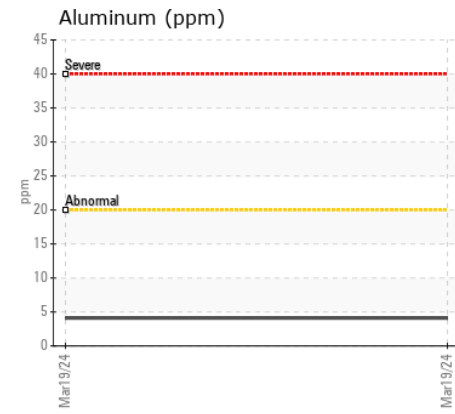
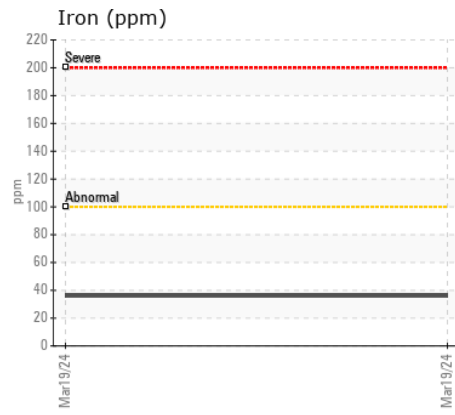
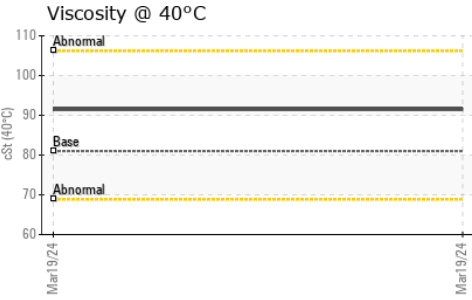
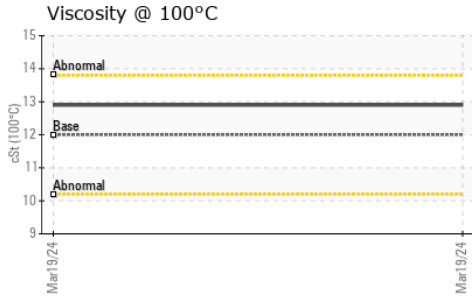
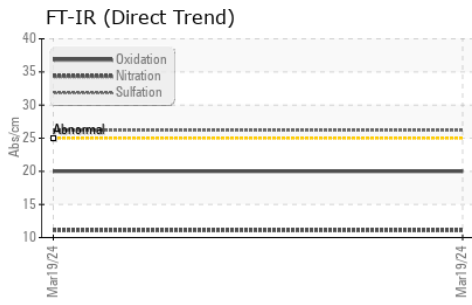
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	---	---
Potassium	ppm	ASTM D5185(m)	>20	3	---	---
Fuel		WC Method	>5	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	1	---	---
Nitration	Abs/cm	ASTM D7624*	>20	11.1	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.2	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		3	---	---
Boron	ppm	ASTM D5185(m)		15	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		43	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		364	---	---
Calcium	ppm	ASTM D5185(m)		1949	---	---
Phosphorus	ppm	ASTM D5185(m)		981	---	---
Zinc	ppm	ASTM D5185(m)		1173	---	---
Sulfur	ppm	ASTM D5185(m)		2512	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.0	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	81	91.5	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	12.	12.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	141	138	---	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0083981 **Received** : 03 Jun 2024  
**Lab Number** : 02639335 **Tested** : 03 Jun 2024  
**Unique Number** : 5788497 **Diagnosed** : 03 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

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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