

Machine Id
3720099
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		PC0084001	PC0066862	PC0059849
Sample Date		Client Info		22 May 2024	21 Dec 2022	01 Jun 2022
Machine Age	mls	Client Info		367222	251381	195944
Oil Age	mls	Client Info		55000	56000	55000
Filter Age	mls	Client Info		55000	56000	55000
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	49	50	68
Chromium	ppm	ASTM D5185(m)	>6	1	2	4
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>50	19	27	43
Lead	ppm	ASTM D5185(m)	>10	0	<1	1
Copper	ppm	ASTM D5185(m)	>50	6	12	25
Tin	ppm	ASTM D5185(m)	>6	0	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

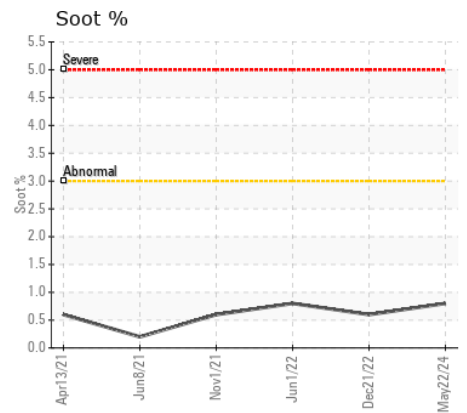
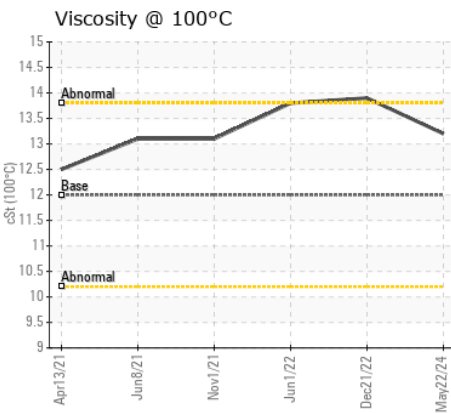
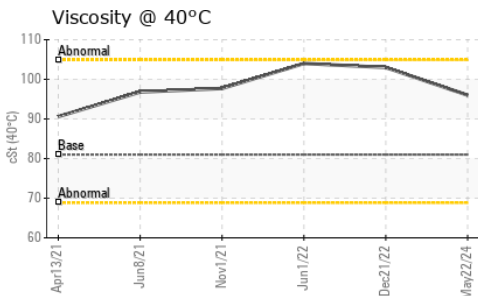
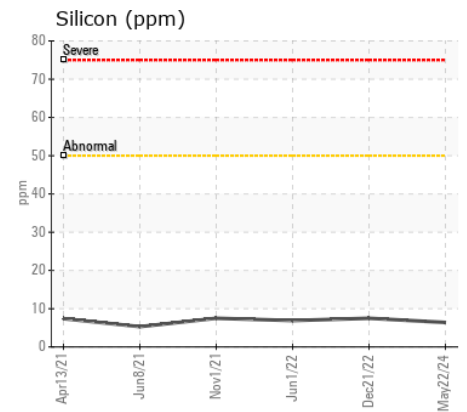
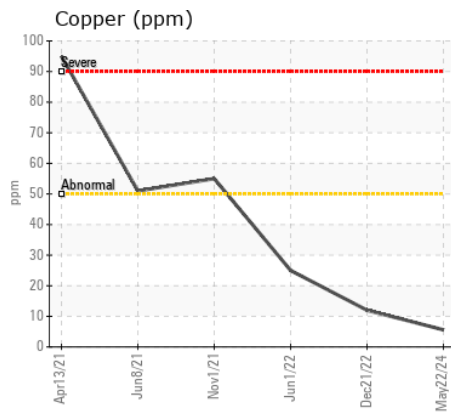
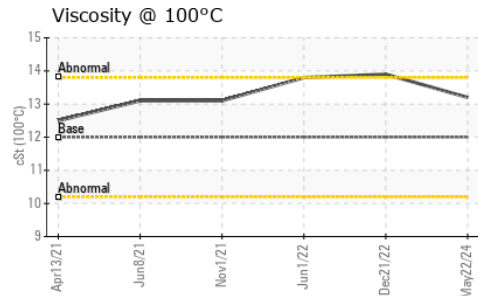
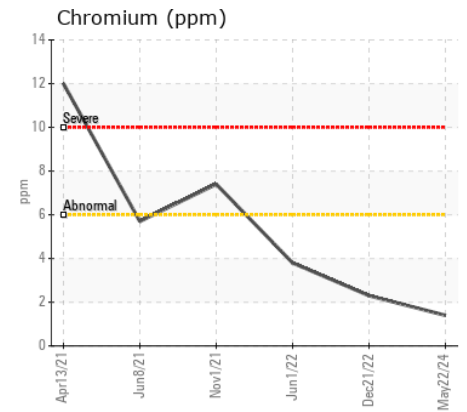
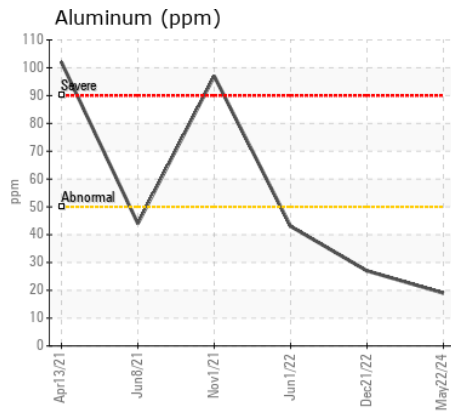
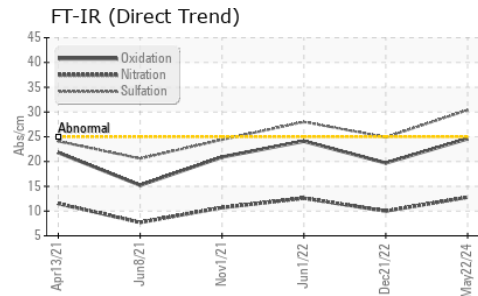
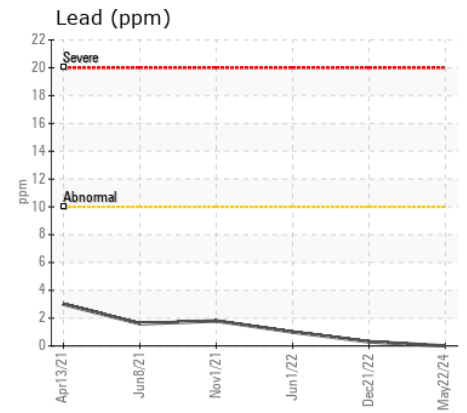
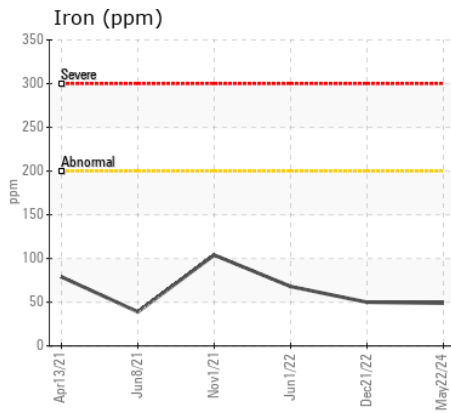
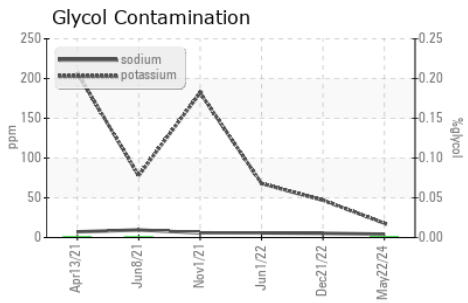
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>50	6	8	7
Potassium	ppm	ASTM D5185(m)	>20	18	47	68
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.8	0.6	0.8
Nitration	Abs/cm	ASTM D7624*	>20	12.8	10.0	12.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	30.4	24.9	28.0
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		4	5	6
Boron	ppm	ASTM D5185(m)		12	12	3
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		17	57	63
Manganese	ppm	ASTM D5185(m)		<1	<1	1
Magnesium	ppm	ASTM D5185(m)		137	895	1009
Calcium	ppm	ASTM D5185(m)		2268	1384	1241
Phosphorus	ppm	ASTM D5185(m)		924	1137	1031
Zinc	ppm	ASTM D5185(m)		1151	1296	1319
Sulfur	ppm	ASTM D5185(m)		2714	2277	2052
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.6	19.7	24.1
Visc @ 40°C	cSt	ASTM D7279(m)	81	96.0	103	104
Visc @ 100°C	cSt	ASTM D7279(m)	12.	13.2	13.9	13.8
Viscosity Index (VI)	Scale	ASTM D2270*	141	136	136	133



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0084001 **Received** : 20 Jun 2024
Lab Number : 02643078 **Tested** : 20 Jun 2024
Unique Number : 5800617 **Diagnosed** : 21 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI, Visual)

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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