



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
3720096
 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		PC0084003	PC0074747	PC0038504
Sample Date		Client Info		27 Mar 2024	15 May 2023	04 Jan 2022
Machine Age	mls	Client Info		395644	333912	225668
Oil Age	mls	Client Info		62000	52000	51000
Filter Age	mls	Client Info		62000	52000	51000
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	45	32	31
Chromium	ppm	ASTM D5185(m)	>6	1	2	2
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>50	14	11	13
Lead	ppm	ASTM D5185(m)	>10	0	<1	<1
Copper	ppm	ASTM D5185(m)	>50	6	7	18
Tin	ppm	ASTM D5185(m)	>6	0	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

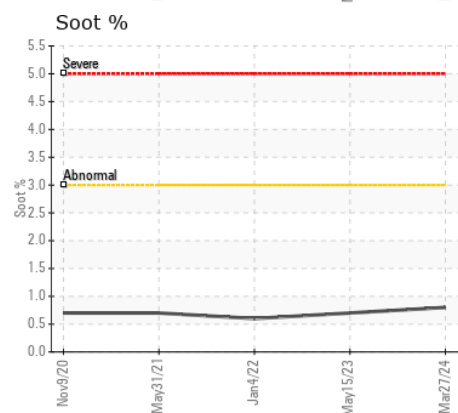
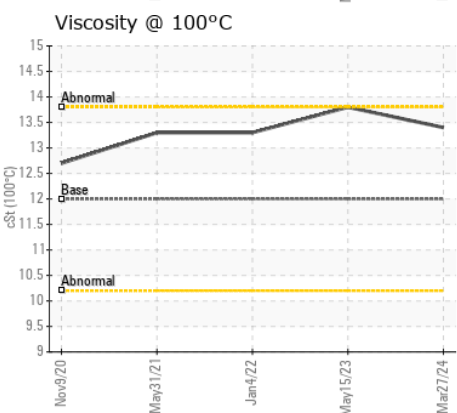
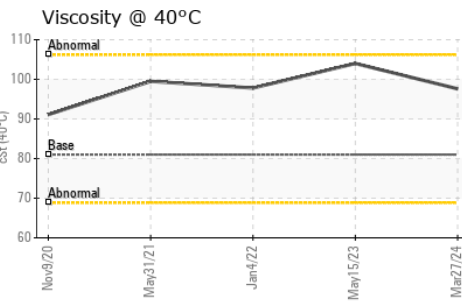
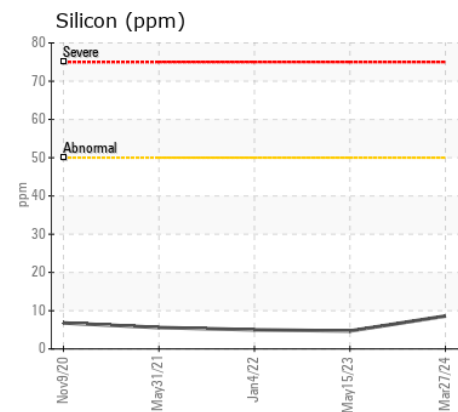
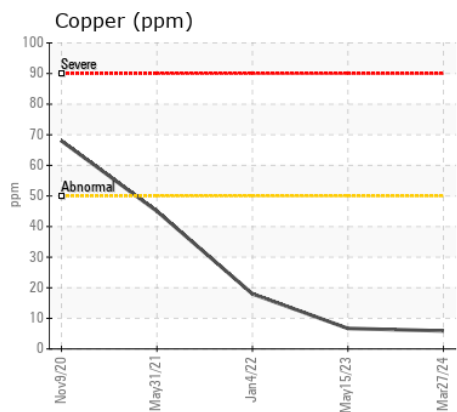
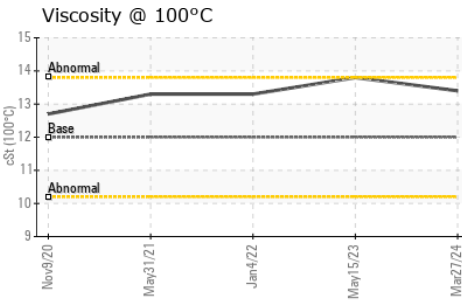
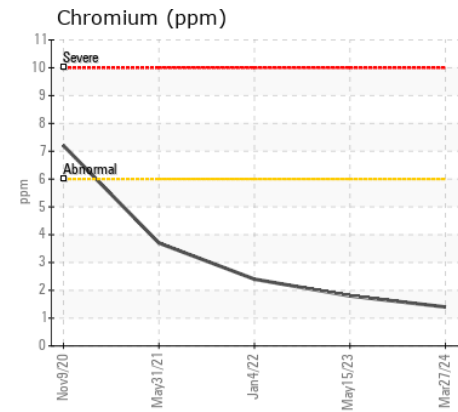
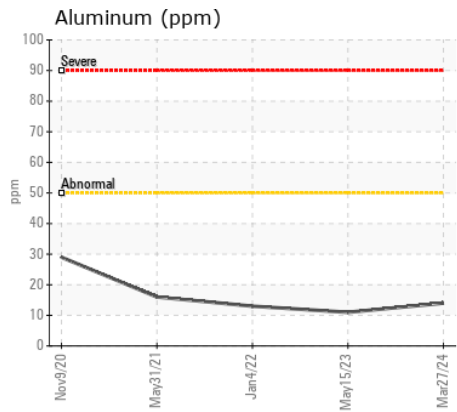
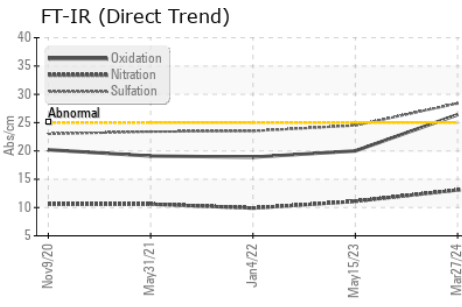
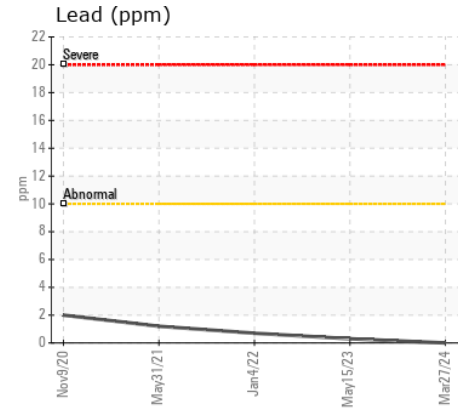
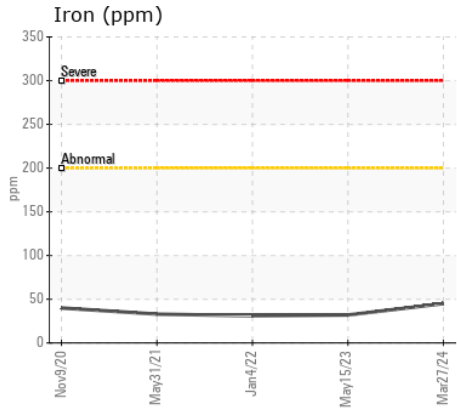
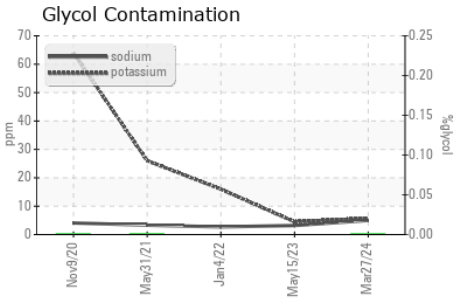
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>50	9	5	5
Potassium	ppm	ASTM D5185(m)	>20	6	4	16
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	0.7	0.6
Nitration	Abs/cm	ASTM D7624*	>20	13.1	11.1	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.4	24.5	23.5
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)		5	3	3
Boron	ppm	ASTM D5185(m)		17	6	2
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		50	63	57
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		409	981	931
Calcium	ppm	ASTM D5185(m)		1904	1193	1116
Phosphorus	ppm	ASTM D5185(m)		997	1095	1008
Zinc	ppm	ASTM D5185(m)		1219	1268	1204
Sulfur	ppm	ASTM D5185(m)		2336	2117	1935
Oxidation	Abs/.1mm	ASTM D7414*	>25	26.4	20.0	18.9
Visc @ 40°C	cSt	ASTM D7279(m)	81	97.6	104	97.8
Visc @ 100°C	cSt	ASTM D7279(m)	12.	13.4	13.8	13.3
Viscosity Index (VI)	Scale	ASTM D2270*	141	136	133	134



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0084003 **Received** : 03 Jun 2024
Lab Number : 02639336 **Tested** : 03 Jun 2024
Unique Number : 5788498 **Diagnosed** : 03 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI)

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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.