



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**3720100**  
 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		PC0083996	PC0071803	PC0066770
Sample Date		Client Info		12 Feb 2024	26 Jun 2023	13 Dec 2022
Machine Age	mls	Client Info		377024	320202	265416
Oil Age	mls	Client Info		57000	55000	51000
Filter Age	mls	Client Info		57000	55000	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	40	43	34
Chromium	ppm	ASTM D5185(m)	>6	1	2	2
Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<1	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>50	12	14	12
Lead	ppm	ASTM D5185(m)	>10	0	<1	<1
Copper	ppm	ASTM D5185(m)	>50	8	9	11
Tin	ppm	ASTM D5185(m)	>6	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

**CONTAMINATION**

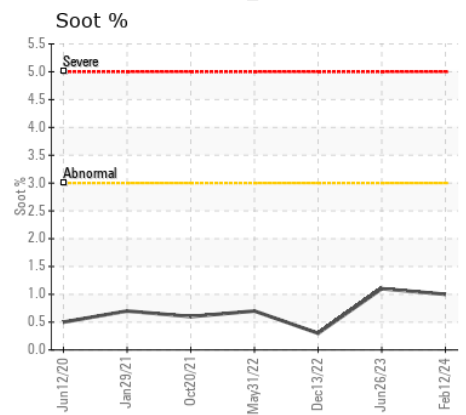
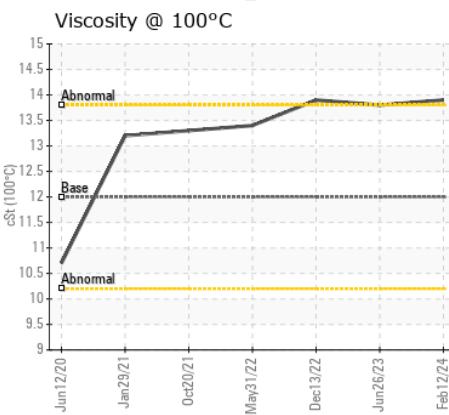
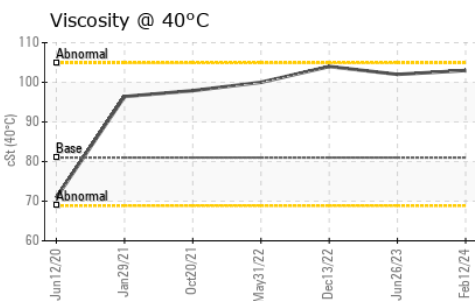
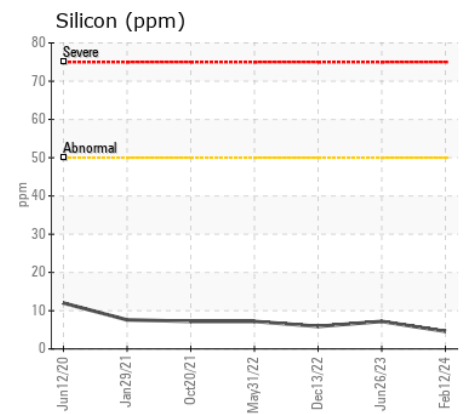
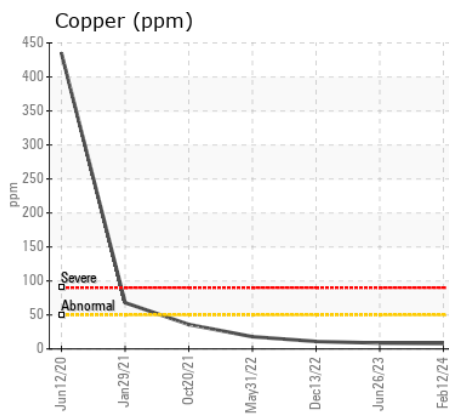
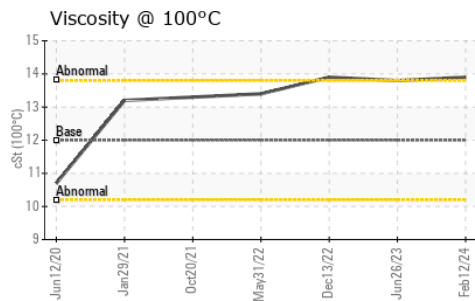
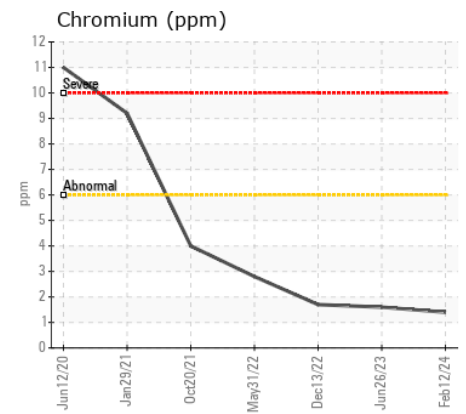
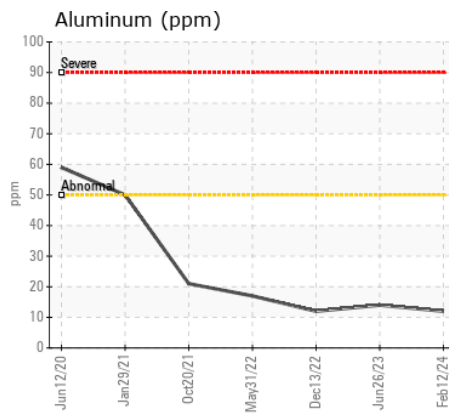
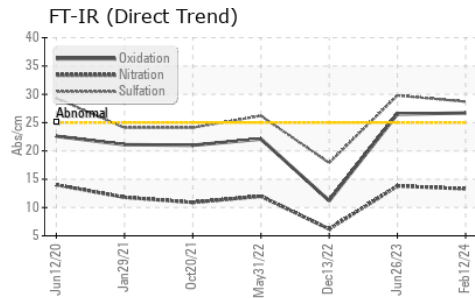
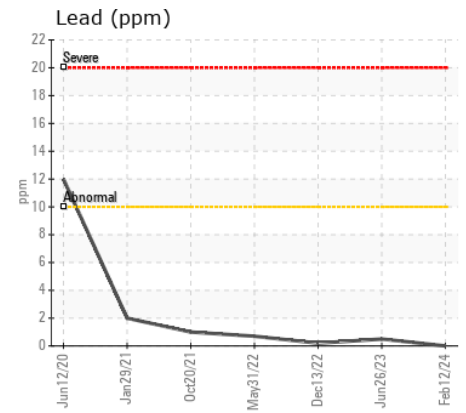
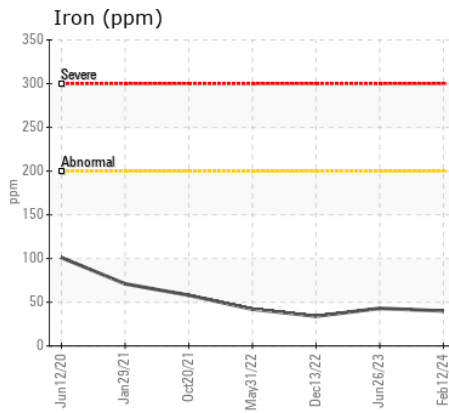
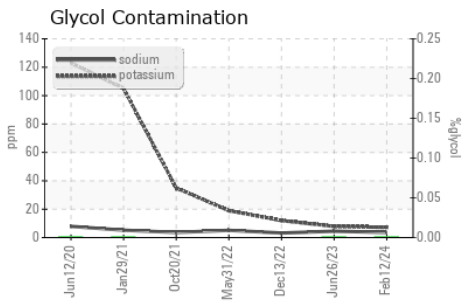
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>50	5	7	6
Potassium	ppm	ASTM D5185(m)	>20	7	8	12
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	NEG
Soot %	%	ASTM D7844*	>3	1	1.1	0.3
Nitration	Abs/cm	ASTM D7624*	>20	13.3	13.8	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.7	29.8	17.9
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	4	3
Boron	ppm	ASTM D5185(m)		13	16	3
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		53	61	64
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		396	583	1023
Calcium	ppm	ASTM D5185(m)		1878	1742	1205
Phosphorus	ppm	ASTM D5185(m)		995	1147	1142
Zinc	ppm	ASTM D5185(m)		1262	1296	1302
Sulfur	ppm	ASTM D5185(m)		2345	2311	2154
Oxidation	Abs/.1mm	ASTM D7414*	>25	26.7	26.5	11.2
Visc @ 40°C	cSt	ASTM D7279(m)	81	103	102	104
Visc @ 100°C	cSt	ASTM D7279(m)	12.	13.9	13.8	13.9
Viscosity Index (VI)	Scale	ASTM D2270*	141	136	136	134



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0083996 **Received** : 20 Jun 2024  
**Lab Number** : **02643077** **Tested** : 20 Jun 2024  
**Unique Number** : 5800616 **Diagnosed** : 21 Jun 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol, 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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