

Machine Id
69
Component
Diesel Engine
Fluid
SAE 5W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PC0045327	PC0066783	---
Sample Date		Client Info		20 Apr 2024	06 Nov 2023	---
Machine Age	hrs	Client Info		579	289	---
Oil Age	hrs	Client Info		250	289	---
Filter Age	hrs	Client Info		250	289	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>80	15	23	---
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>2	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>30	2	5	---
Lead	ppm	ASTM D5185(m)	>30	0	<1	---
Copper	ppm	ASTM D5185(m)	>150	2	11	---
Tin	ppm	ASTM D5185(m)	>5	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

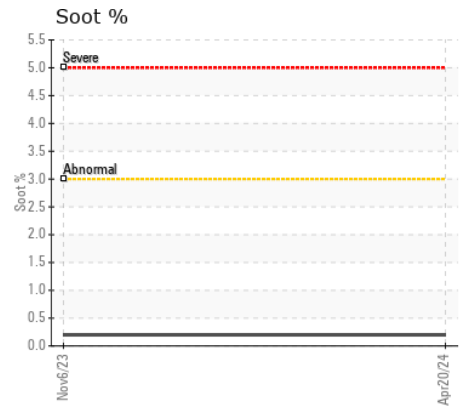
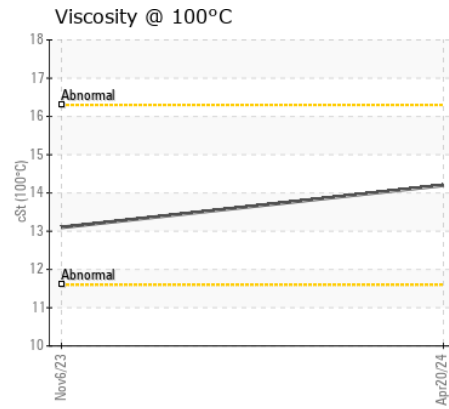
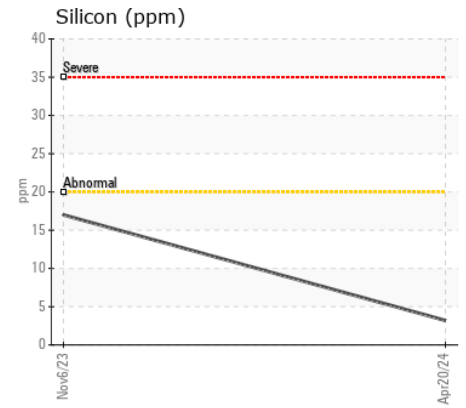
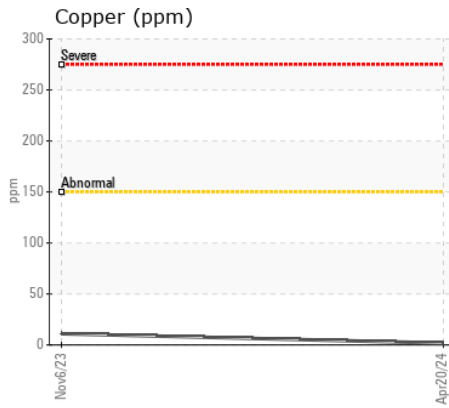
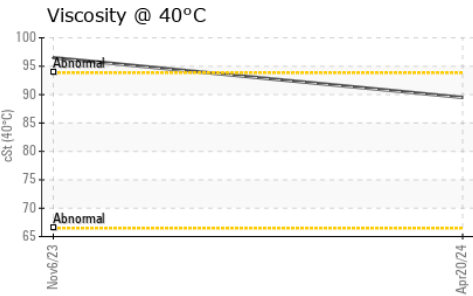
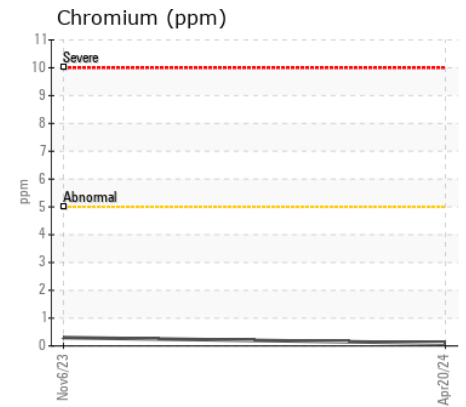
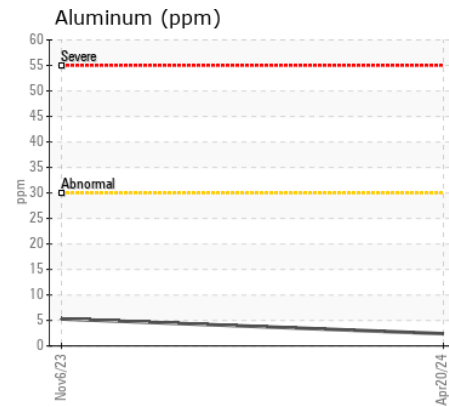
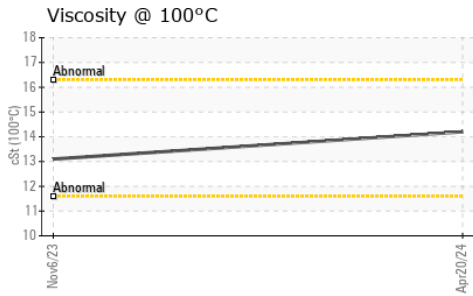
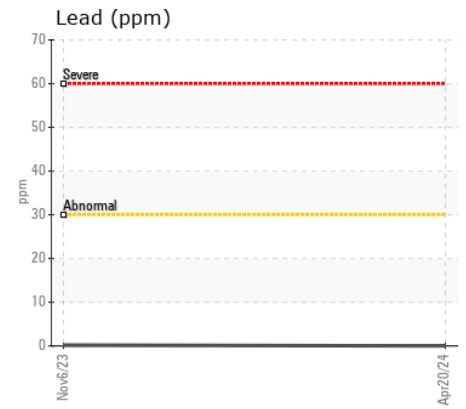
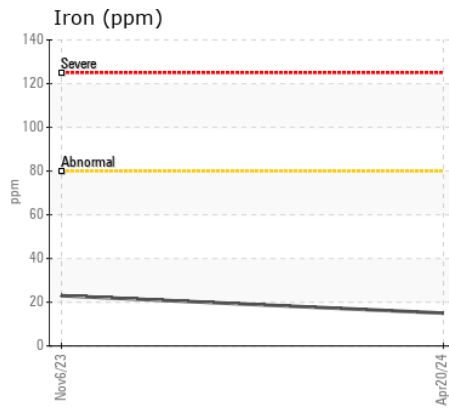
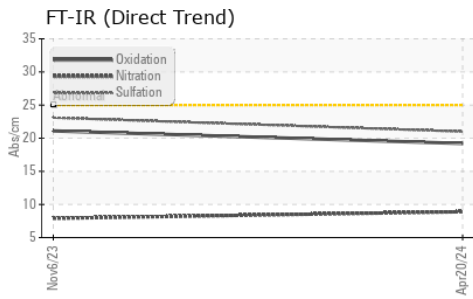
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	3	17	---
Potassium	ppm	ASTM D5185(m)	>20	3	7	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.2	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	8.9	7.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.0	23.1	---
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)		4	5	---
Boron	ppm	ASTM D5185(m)		39	45	---
Barium	ppm	ASTM D5185(m)		<1	5	---
Molybdenum	ppm	ASTM D5185(m)		55	44	---
Manganese	ppm	ASTM D5185(m)		<1	6	---
Magnesium	ppm	ASTM D5185(m)		1053	593	---
Calcium	ppm	ASTM D5185(m)		917	1520	---
Phosphorus	ppm	ASTM D5185(m)		973	770	---
Zinc	ppm	ASTM D5185(m)		1147	893	---
Sulfur	ppm	ASTM D5185(m)		2651	2085	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.2	21.1	---
Visc @ 40°C	cSt	ASTM D7279(m)		89.5	96.5	---
Visc @ 100°C	cSt	ASTM D7279(m)		14.2	13.1	---
Viscosity Index (VI)	Scale	ASTM D2270*		164	133	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0045327 **Received** : 29 Apr 2024
Lab Number : 02631870 **Tested** : 29 Apr 2024
Unique Number : 5773023 **Diagnosed** : 29 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: 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.