



Machine Id
933014
Component
Natural Gas Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112696	GFL0100349	---
Sample Date		Client Info		30 Apr 2024	08 Nov 2023	---
Machine Age	hrs	Client Info		2909	1724	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	19	23	---
Chromium	ppm	ASTM D5185(m)	>5	1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	1	---
Titanium	ppm	ASTM D5185(m)	>5	0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	8	5	---
Lead	ppm	ASTM D5185(m)	>40	<1	2	---
Copper	ppm	ASTM D5185(m)	>150	2	4	---
Tin	ppm	ASTM D5185(m)	>4	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

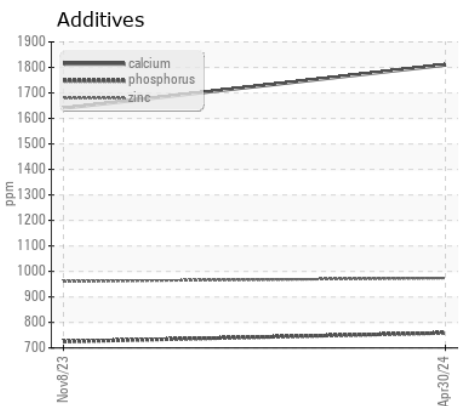
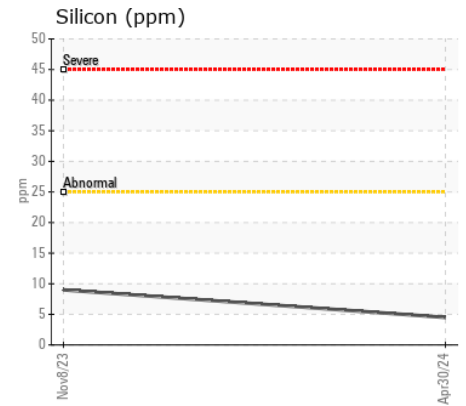
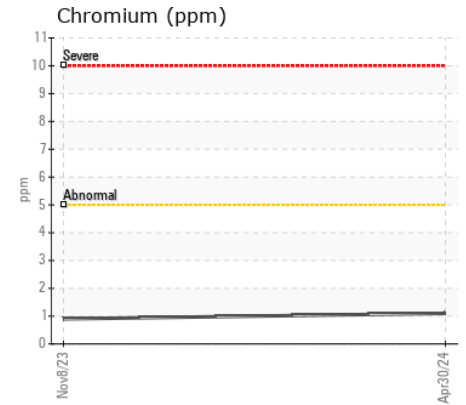
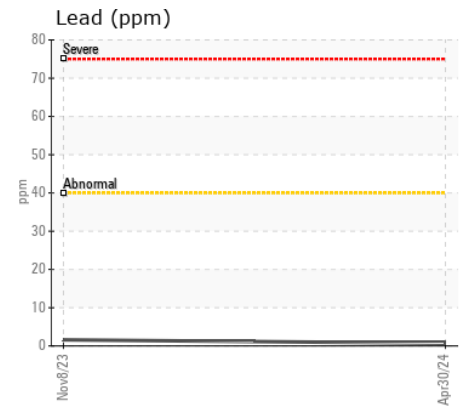
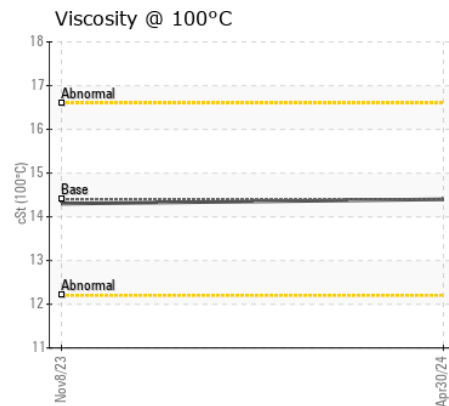
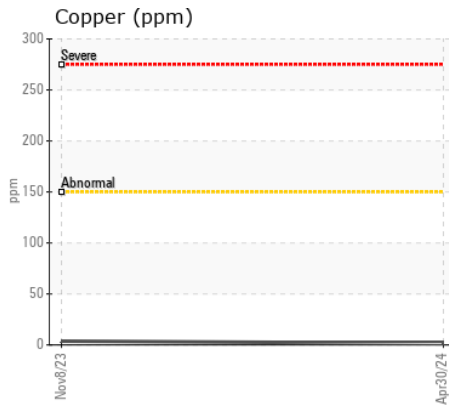
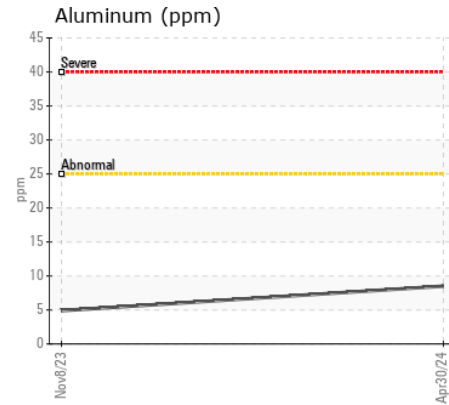
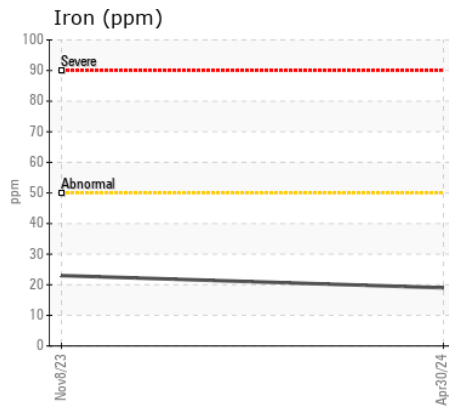
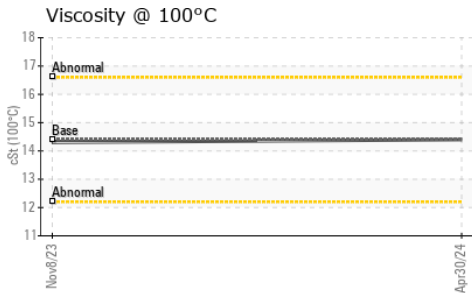
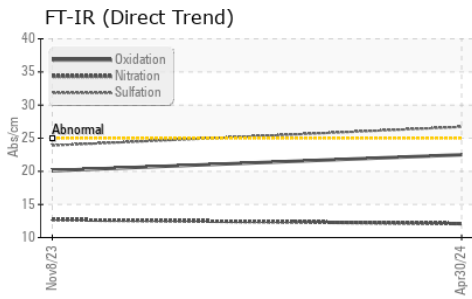
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	9	---
Potassium	ppm	ASTM D5185(m)	>20	5	3	---
Water		WC Method	>0.1	NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	12.1	12.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.7	23.9	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	9	9	---
Boron	ppm	ASTM D5185(m)	250	8	8	---
Barium	ppm	ASTM D5185(m)	10	<1	<1	---
Molybdenum	ppm	ASTM D5185(m)	100	59	57	---
Manganese	ppm	ASTM D5185(m)		<1	2	---
Magnesium	ppm	ASTM D5185(m)	450	625	643	---
Calcium	ppm	ASTM D5185(m)	3000	1810	1640	---
Phosphorus	ppm	ASTM D5185(m)	1150	759	725	---
Zinc	ppm	ASTM D5185(m)	1350	974	961	---
Sulfur	ppm	ASTM D5185(m)	4250	2049	2011	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.5	20.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.4	14.3	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112696
Lab Number : 02633993
Unique Number : 5775146
Test Package : MOB 1

GFL Environmental - 253 - TOR APT
 15 Bermondsey Road - Building B
 Toronto, ON
 CA M4B 1Y9
 Contact: Natalia Stalynska
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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.

T:
F: