



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
357000
Component
Diesel Engine
Fluid
SAE 5W30 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0113119	GFL0065947	---
Sample Date		Client Info		29 Feb 2024	06 Mar 2023	---
Machine Age	kms	Client Info		433256	425783	---
Oil Age	kms	Client Info		0	13000	---
Filter Age	kms	Client Info		0	13000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ABNORMAL	SEVERE	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	18	▲ 386	---
Chromium	ppm	ASTM D5185(m)	>20	0	2	---
Nickel	ppm	ASTM D5185(m)	>4	<1	1	---
Titanium	ppm	ASTM D5185(m)		0	2	---
Silver	ppm	ASTM D5185(m)	>3	<1	0	---
Aluminum	ppm	ASTM D5185(m)	>20	3	▲ 49	---
Lead	ppm	ASTM D5185(m)	>40	<1	<1	---
Copper	ppm	ASTM D5185(m)	>330	1	6	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	1	---

CONTAMINATION

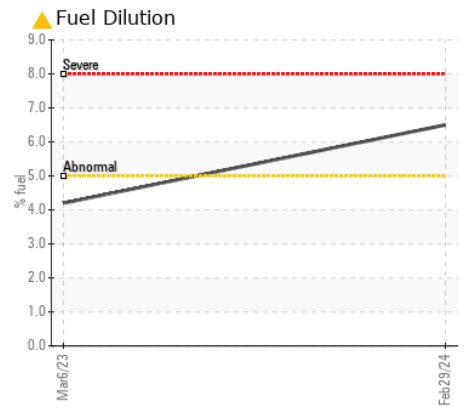
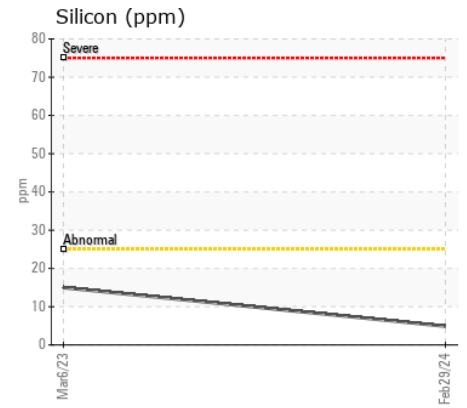
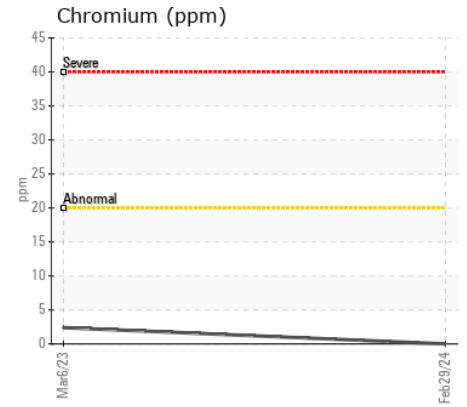
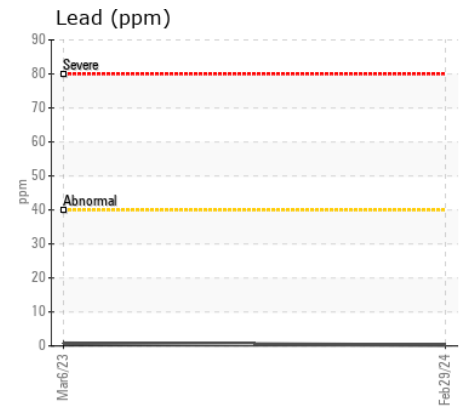
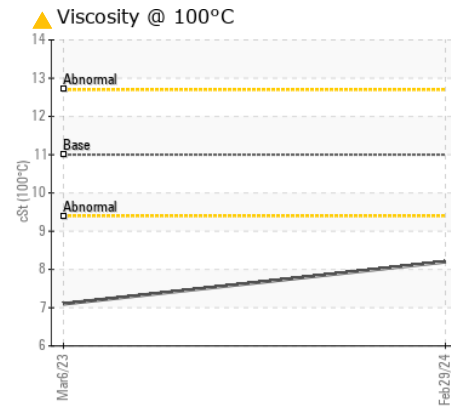
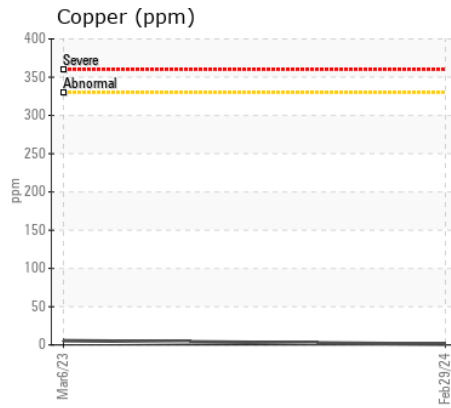
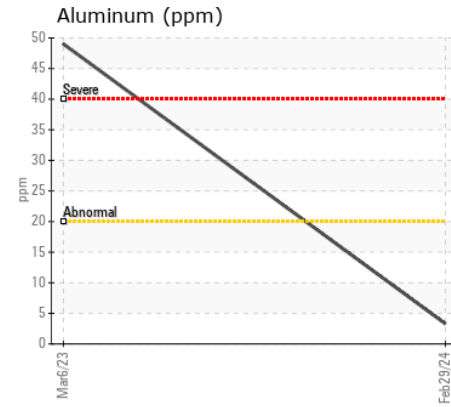
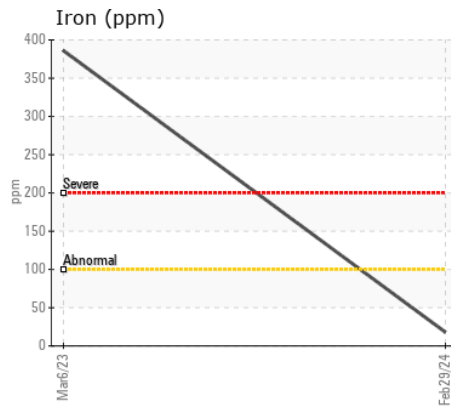
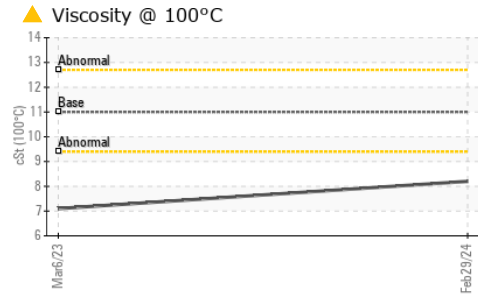
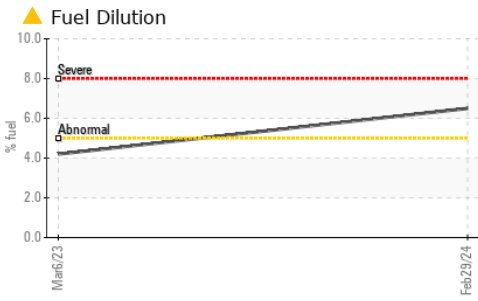
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	15	---
Potassium	ppm	ASTM D5185(m)	>20	2	2	---
Fuel	%	ASTM D7593*	>5	▲ 6.5	▲ 4.2	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	8.7	16.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	15.8	28.8	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		6	26	---
Boron	ppm	ASTM D5185(m)		68	47	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		45	86	---
Manganese	ppm	ASTM D5185(m)		0	3	---
Magnesium	ppm	ASTM D5185(m)		636	557	---
Calcium	ppm	ASTM D5185(m)		463	1243	---
Phosphorus	ppm	ASTM D5185(m)		549	691	---
Zinc	ppm	ASTM D5185(m)		480	842	---
Sulfur	ppm	ASTM D5185(m)		1994	2599	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	11.3	24.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.0	▲ 8.2	▲ 7.1	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113119 **Received** : 05 Mar 2024
Lab Number : 02619809 **Tested** : 06 Mar 2024
Unique Number : 5736919 **Diagnosed** : 06 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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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.