



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
GFL218
Machine Id
234001
Component
Diesel Engine
Fluid
NOT GIVEN (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0120085	GFL0111121	---
Sample Date		Client Info		02 May 2024	05 Feb 2024	---
Machine Age	kms	Client Info		10340	5138	---
Oil Age	kms	Client Info		5138	0	---
Filter Age	kms	Client Info		5138	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>80	14	31	---
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>30	2	3	---
Lead	ppm	ASTM D5185(m)	>30	0	<1	---
Copper	ppm	ASTM D5185(m)	>150	2	13	---
Tin	ppm	ASTM D5185(m)	>5	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

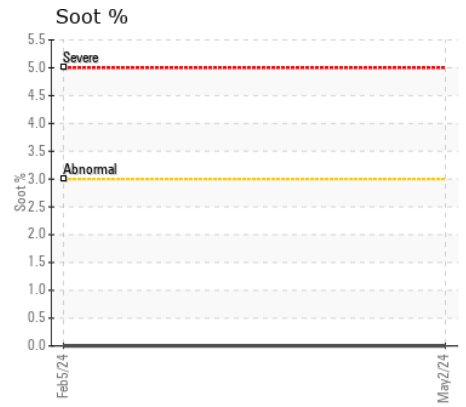
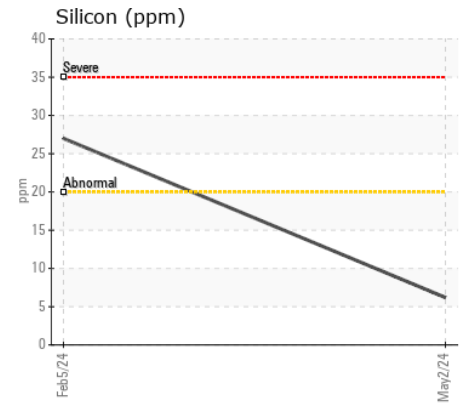
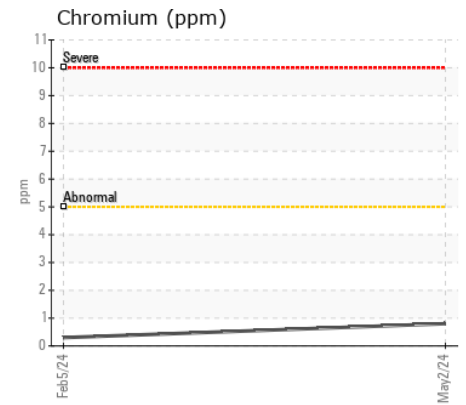
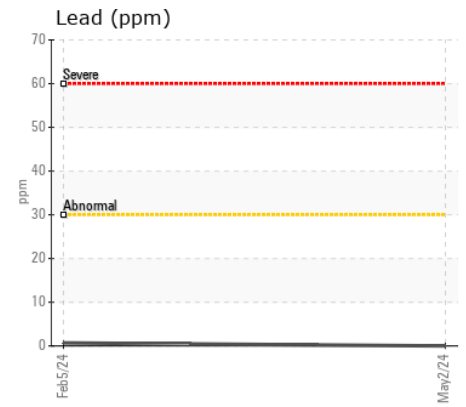
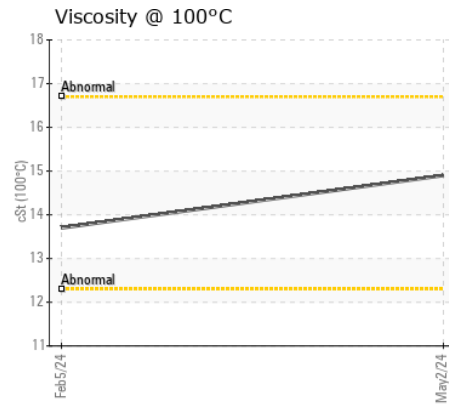
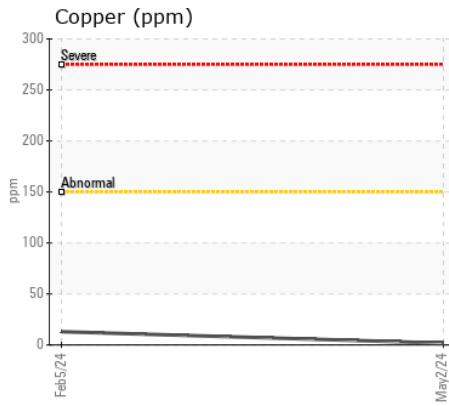
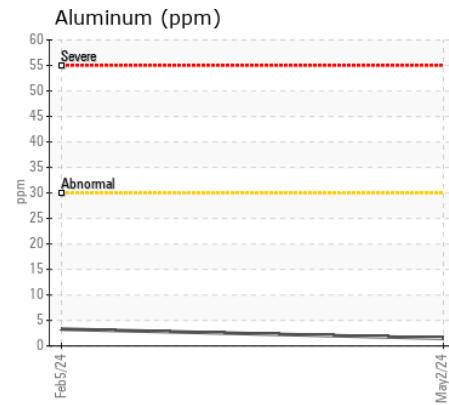
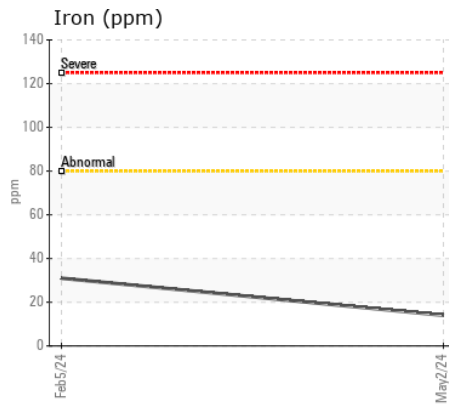
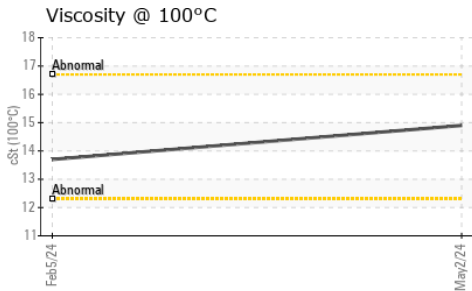
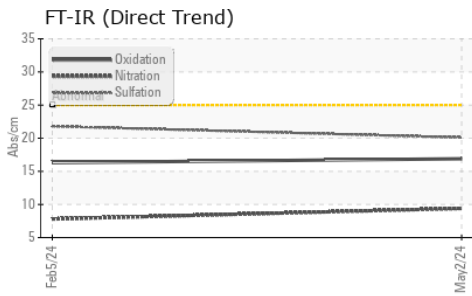
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	6	27	---
Potassium	ppm	ASTM D5185(m)	>20	<1	2	---
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	0	---
Nitration	Abs/cm	ASTM D7624*	>20	9.4	7.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	21.8	---
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)		6	2	---
Boron	ppm	ASTM D5185(m)		25	39	---
Barium	ppm	ASTM D5185(m)		<1	2	---
Molybdenum	ppm	ASTM D5185(m)		57	91	---
Manganese	ppm	ASTM D5185(m)		1	9	---
Magnesium	ppm	ASTM D5185(m)		605	624	---
Calcium	ppm	ASTM D5185(m)		1613	1297	---
Phosphorus	ppm	ASTM D5185(m)		737	704	---
Zinc	ppm	ASTM D5185(m)		925	811	---
Sulfur	ppm	ASTM D5185(m)		2048	2411	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.9	16.3	---
Visc @ 100°C	cSt	ASTM D7279(m)		14.9	13.7	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0120085
Lab Number : 02633461
Unique Number : 5774614
Test Package : MOB 1

GFL Environmental - 225 - COT(D2)
 20 Brydon Drive
 Etobicoke, ON
 CA M9W 5R6
 Contact: Rick Philip
 rphilip@gflenv.com
 T: (416)745-8080
 F:

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.