



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
813075

Component
Diesel Engine

Fluid
CERTIFIED SPECTRA XTREME 15W40 CK4 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0105895	GFL0076463	---
Sample Date		Client Info		28 Feb 2024	10 Apr 2023	---
Machine Age	kms	Client Info		42443	830	---
Oil Age	kms	Client Info		0	348	---
Filter Age	kms	Client Info		0	348	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	14	12	---
Chromium	ppm	ASTM D5185(m)	>20	<1	0	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	5	3	---
Lead	ppm	ASTM D5185(m)	>40	0	<1	---
Copper	ppm	ASTM D5185(m)	>330	1	2	---
Tin	ppm	ASTM D5185(m)	>15	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

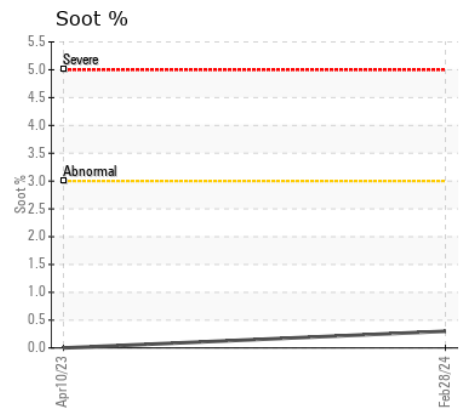
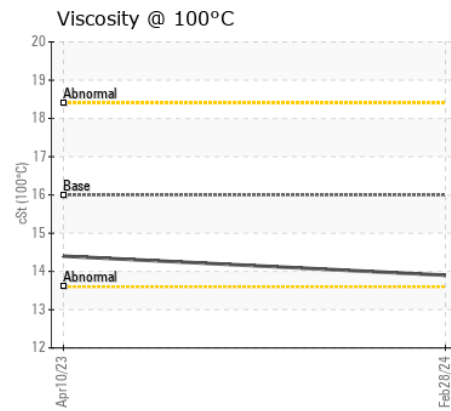
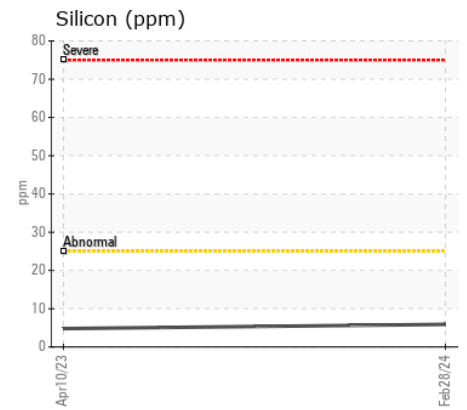
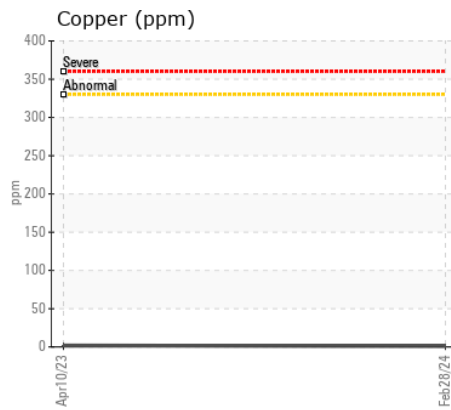
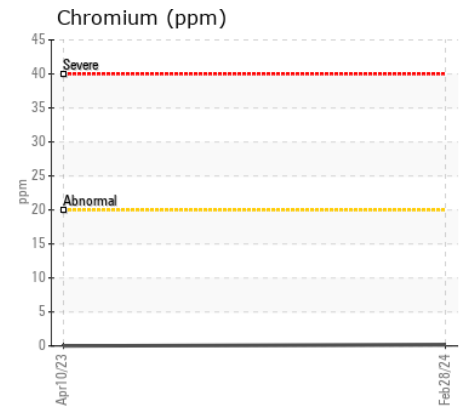
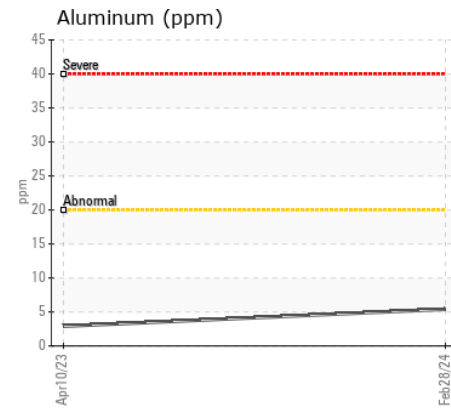
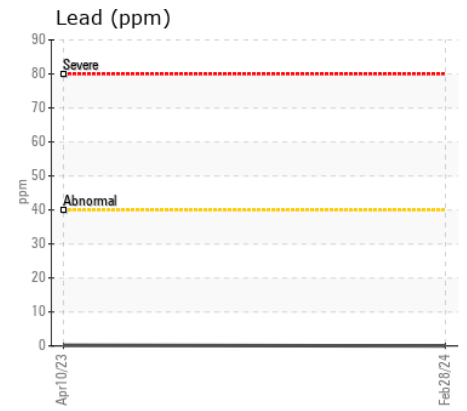
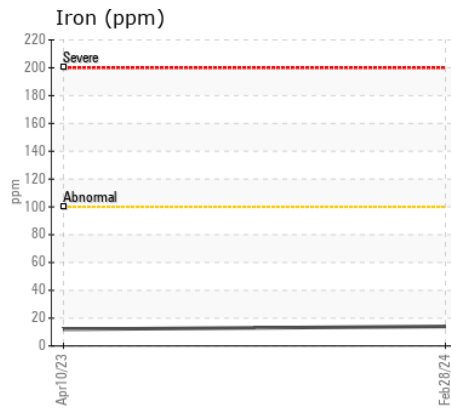
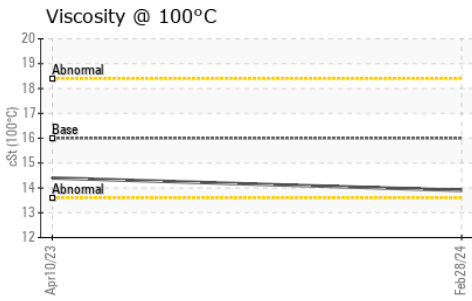
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	6	5	---
Potassium	ppm	ASTM D5185(m)	>20	2	8	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.3	0	---
Nitration	Abs/cm	ASTM D7624*	>20	9.5	6.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.2	21.3	---
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	5	---
Boron	ppm	ASTM D5185(m)		<1	131	---
Barium	ppm	ASTM D5185(m)		0	<1	---
Molybdenum	ppm	ASTM D5185(m)		310	5	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		1061	74	---
Calcium	ppm	ASTM D5185(m)		1164	2307	---
Phosphorus	ppm	ASTM D5185(m)		1233	1035	---
Zinc	ppm	ASTM D5185(m)		1306	1121	---
Sulfur	ppm	ASTM D5185(m)		2949	3024	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.1	13.9	---
Visc @ 100°C	cSt	ASTM D7279(m)	16	13.9	14.4	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0105895 **Received** : 05 Mar 2024
Lab Number : 02619840 **Tested** : 05 Mar 2024
Unique Number : 5736950 **Diagnosed** : 05 Mar 2024 - Wes Davis
Test Package : MOB 1

GFL Environmental - 348
 1027 Kirk Line East
 Bracebridge, ON
 CA P1L 0A1
 Contact: Royce Reid
 roycereid@gflenv.com

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: