



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id

813072

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		GFL0105893	GFL0076460	---
Sample Date		Client Info		01 Apr 2024	04 Apr 2023	---
Machine Age	kms	Client Info		39484	817	---
Oil Age	kms	Client Info		0	310	---
Filter Age	kms	Client Info		0	310	---
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)	>80	6	10	---
Chromium	ppm	ASTM D5185(m)	>5	0	0	---
Nickel	ppm	ASTM D5185(m)	>2	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>30	3	2	---
Lead	ppm	ASTM D5185(m)	>30	0	<1	---
Copper	ppm	ASTM D5185(m)	>150	2	2	---
Tin	ppm	ASTM D5185(m)	>5	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

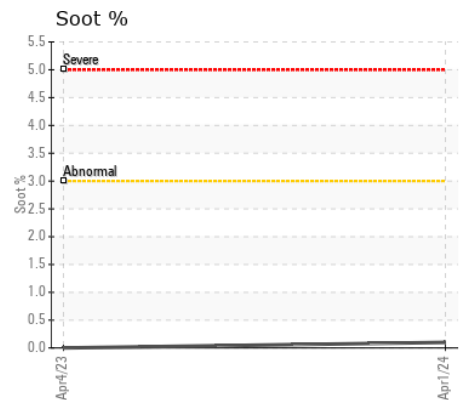
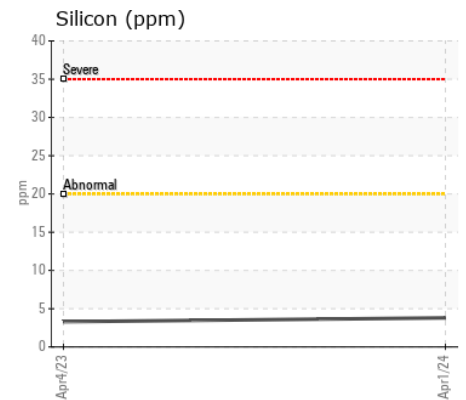
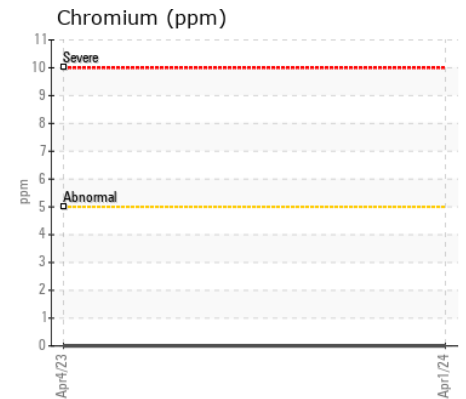
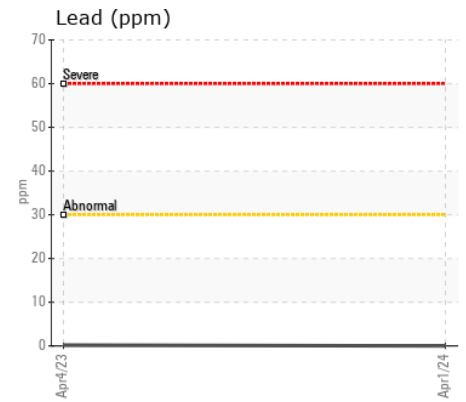
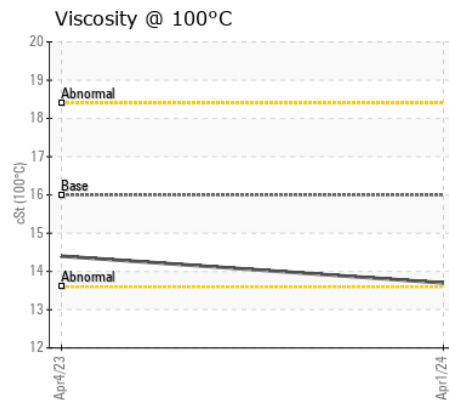
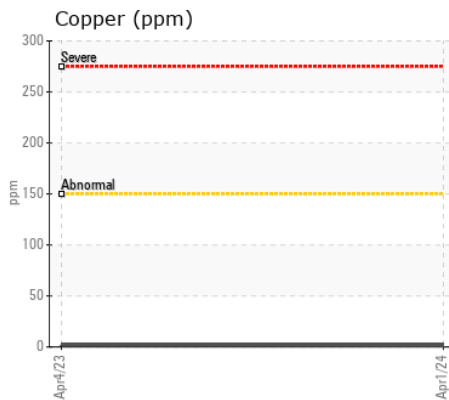
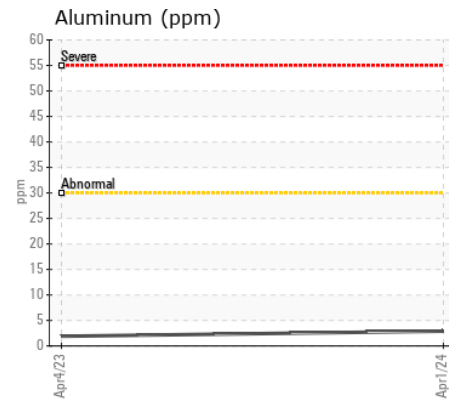
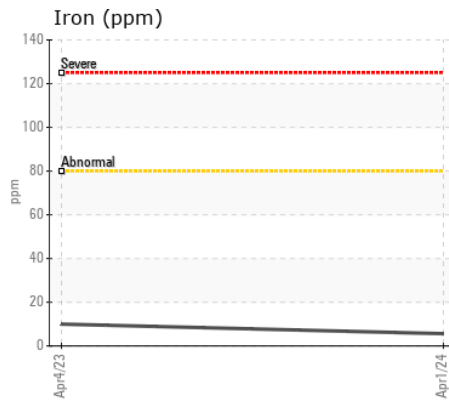
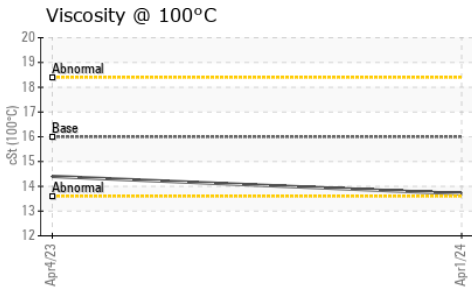
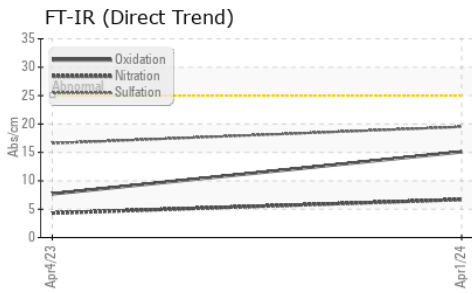
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	4	3	---
Potassium	ppm	ASTM D5185(m)	>20	1	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	0.1	0	---
Nitration	Abs/cm	ASTM D7624*	>20	6.7	4.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.5	16.6	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	VLITE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
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)		3	5	---
Boron	ppm	ASTM D5185(m)		5	134	---
Barium	ppm	ASTM D5185(m)		0	<1	---
Molybdenum	ppm	ASTM D5185(m)		298	4	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		1006	65	---
Calcium	ppm	ASTM D5185(m)		1087	2284	---
Phosphorus	ppm	ASTM D5185(m)		1180	1047	---
Zinc	ppm	ASTM D5185(m)		1223	1130	---
Sulfur	ppm	ASTM D5185(m)		2842	3022	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.1	7.7	---
Visc @ 100°C	cSt	ASTM D7279(m)	16	13.7	14.4	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0105893 **Received** : 11 Apr 2024
Lab Number : 02628095 **Tested** : 11 Apr 2024
Unique Number : 5761227 **Diagnosed** : 11 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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: