

Machine Id
813070
Component
Diesel Engine
Fluid
CERTIFIED SPECTRA XTREME 15W40 CK4 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0105891	GFL0076459	---
Sample Date		Client Info		28 Mar 2024	03 Apr 2023	---
Machine Age	kms	Client Info		55112	976	---
Oil Age	kms	Client Info		0	465	---
Filter Age	kms	Client Info		0	465	---
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	7	14	---
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	4	3	---
Lead	ppm	ASTM D5185(m)	>30	0	<1	---
Copper	ppm	ASTM D5185(m)	>150	1	2	---
Tin	ppm	ASTM D5185(m)	>5	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

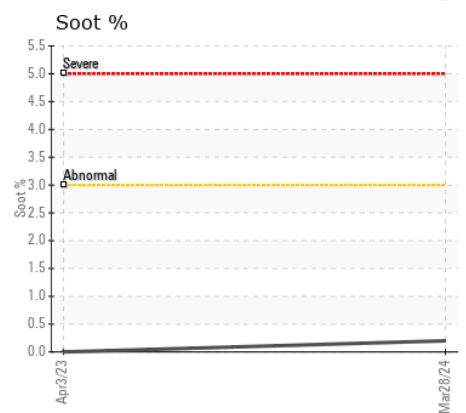
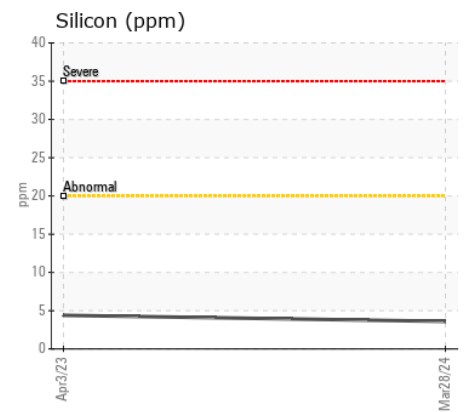
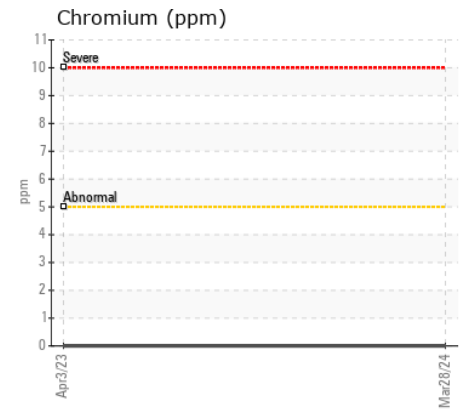
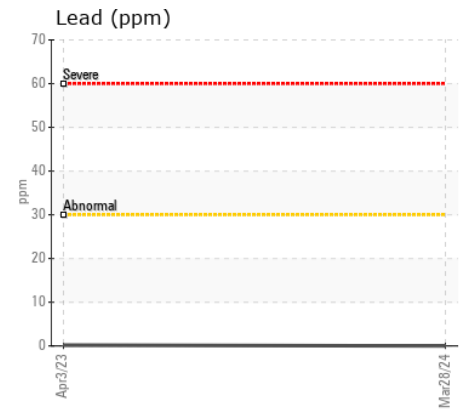
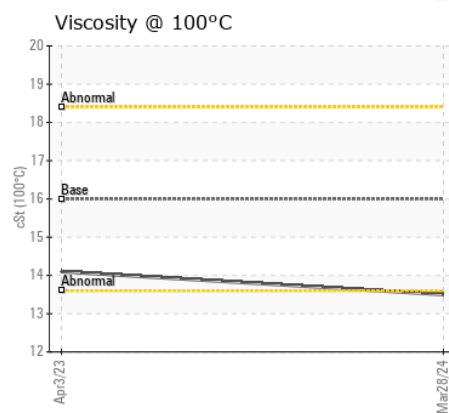
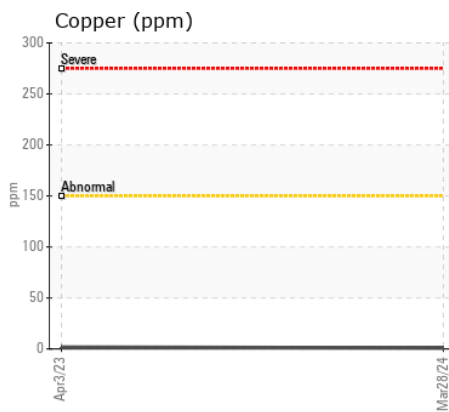
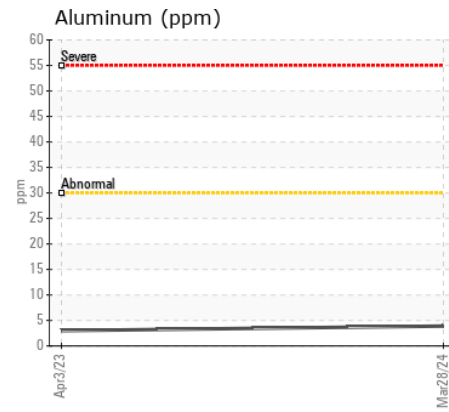
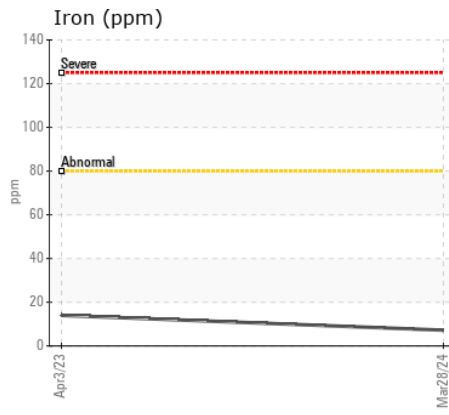
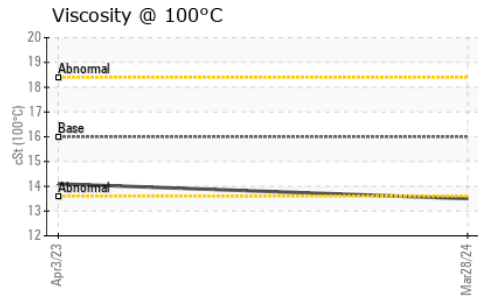
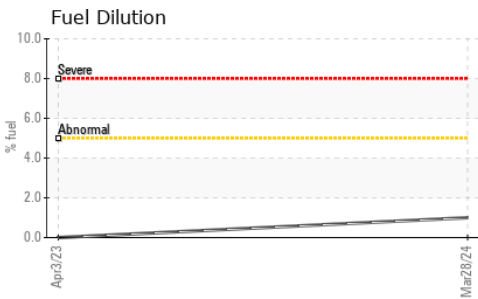
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>20	4	4	---
Potassium	ppm	ASTM D5185(m)	>20	<1	9	---
Fuel	%	ASTM D7593*	>5	1	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.2	0	---
Nitration	Abs/cm	ASTM D7624*	>20	8.0	5.4	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	18.5	---
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)		2	3	---
Boron	ppm	ASTM D5185(m)		3	117	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		303	9	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		1041	82	---
Calcium	ppm	ASTM D5185(m)		1116	2332	---
Phosphorus	ppm	ASTM D5185(m)		1181	1030	---
Zinc	ppm	ASTM D5185(m)		1267	1158	---
Sulfur	ppm	ASTM D5185(m)		2849	2994	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.4	10.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	16	13.5	14.1	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0105891 **Received** : 02 Apr 2024
Lab Number : 02626020 **Tested** : 03 Apr 2024
Unique Number : 5759152 **Diagnosed** : 03 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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.