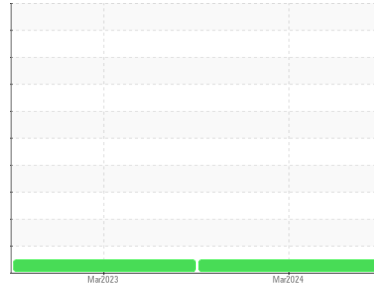




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
813069

Component
Diesel Engine
Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0105892	GFL0076458	---
Sample Date	Client Info		27 Mar 2024	04 Mar 2023	---
Machine Age	kms	Client Info	47080	976	---
Oil Age	kms	Client Info	0	465	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	5	13
Chromium	ppm	ASTM D5185(m)	>5	0	<1
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	0
Copper	ppm	ASTM D5185(m)	>150	1	3
Tin	ppm	ASTM D5185(m)	>5	0	<1
Antimony	ppm	ASTM D5185(m)		0	0
Vanadium	ppm	ASTM D5185(m)		0	0
Beryllium	ppm	ASTM D5185(m)		0	0
Cadmium	ppm	ASTM D5185(m)		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		6	126
Barium	ppm	ASTM D5185(m)		0	0
Molybdenum	ppm	ASTM D5185(m)		265	9
Manganese	ppm	ASTM D5185(m)		0	<1
Magnesium	ppm	ASTM D5185(m)		934	77
Calcium	ppm	ASTM D5185(m)		1174	2400
Phosphorus	ppm	ASTM D5185(m)		1131	1055
Zinc	ppm	ASTM D5185(m)		1209	1170
Sulfur	ppm	ASTM D5185(m)		2864	3043
Lithium	ppm	ASTM D5185(m)		<1	<1

CONTAMINANTS

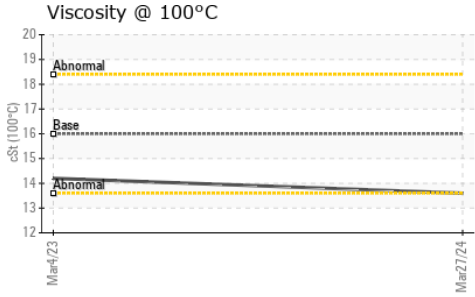
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	3	4
Sodium	ppm	ASTM D5185(m)		3	5
Potassium	ppm	ASTM D5185(m)	>20	1	9

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.9	5.0
Sulfation	Abs./1mm	ASTM D7415*	>30	19.1	17.8



OIL ANALYSIS REPORT



FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	15.1	9.3

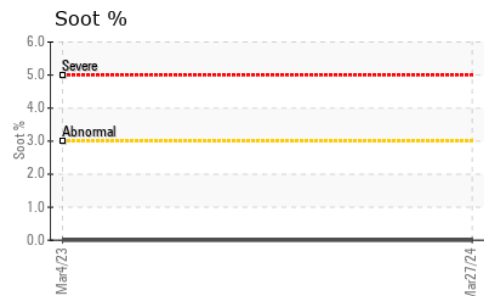
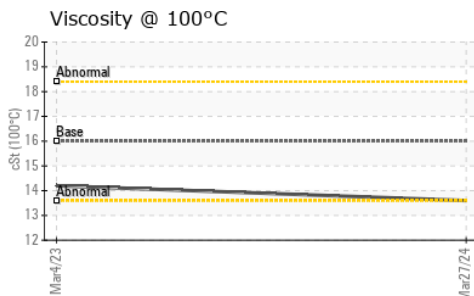
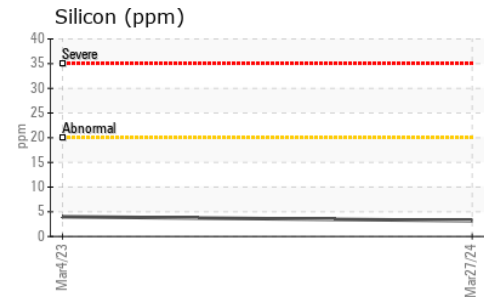
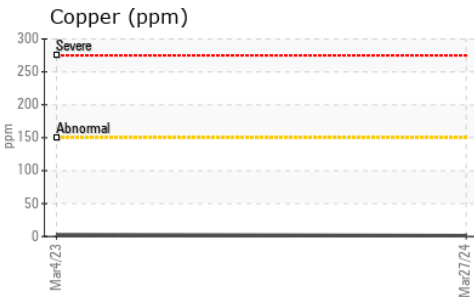
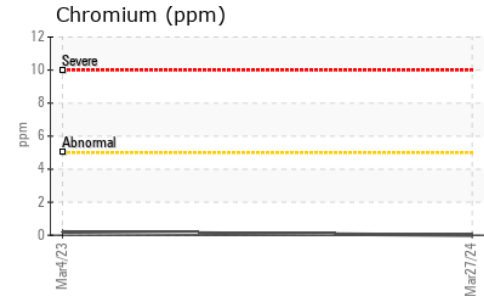
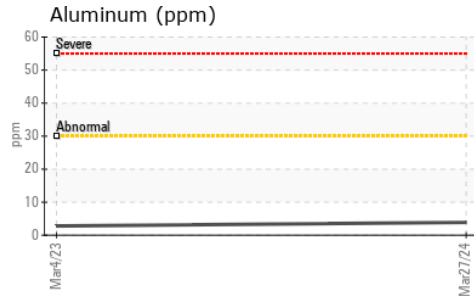
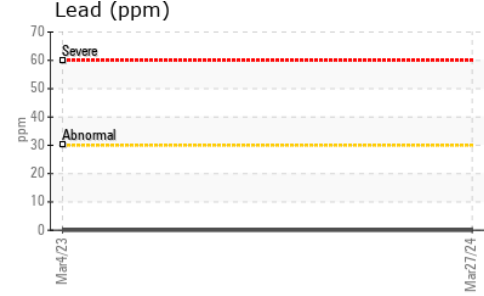
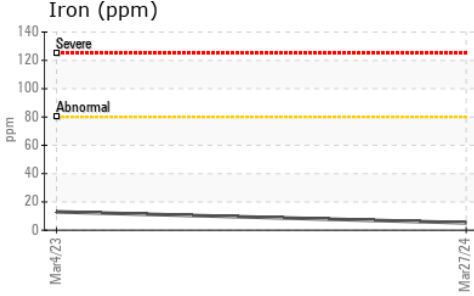
VISUAL

	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	16	13.6	14.2

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0105892 **Received** : 02 Apr 2024
Lab Number : 02626017 **Tested** : 02 Apr 2024
Unique Number : 5759149 **Diagnosed** : 02 Apr 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.