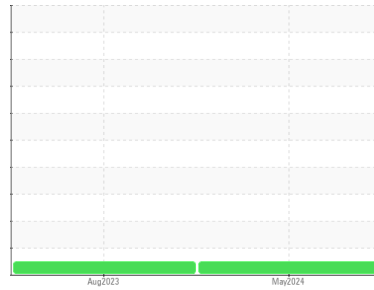




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
933018
 Component
Natural Gas Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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			GFL0119224	GFL0087013	---
Sample Date	Client Info			24 May 2024	31 Aug 2023	---
Machine Age	hrs	Client Info		3252	28557	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>50	19	28	---
Chromium	ppm	ASTM D5185(m)	>5	<1	2	---
Nickel	ppm	ASTM D5185(m)	>4	<1	1	---
Titanium	ppm	ASTM D5185(m)	>5	<1	0	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>25	5	13	---
Lead	ppm	ASTM D5185(m)	>40	5	4	---
Copper	ppm	ASTM D5185(m)	>150	1	4	---
Tin	ppm	ASTM D5185(m)	>4	<1	2	---
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)	250	9	8	---
Barium	ppm	ASTM D5185(m)	10	<1	<1	---
Molybdenum	ppm	ASTM D5185(m)	100	55	58	---
Manganese	ppm	ASTM D5185(m)		<1	2	---
Magnesium	ppm	ASTM D5185(m)	450	563	649	---
Calcium	ppm	ASTM D5185(m)	3000	1712	1686	---
Phosphorus	ppm	ASTM D5185(m)	1150	685	764	---
Zinc	ppm	ASTM D5185(m)	1350	936	966	---
Sulfur	ppm	ASTM D5185(m)	4250	1982	1951	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

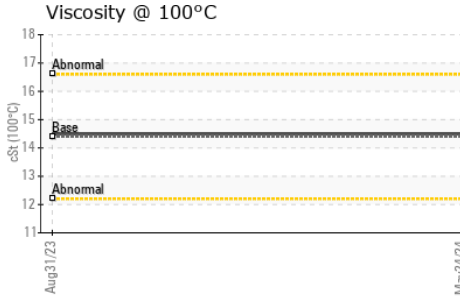
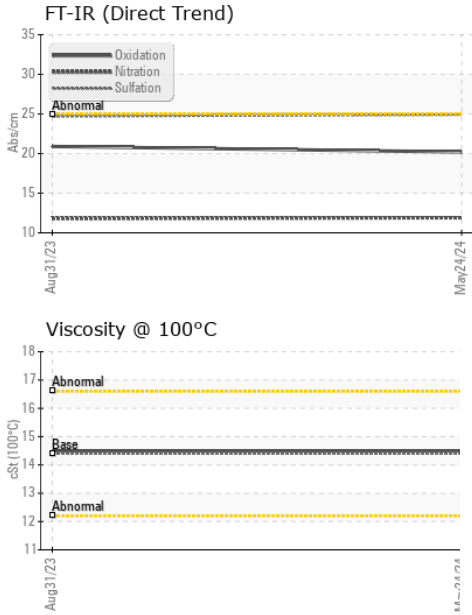
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	11	---
Sodium	ppm	ASTM D5185(m)	>158	10	10	---
Potassium	ppm	ASTM D5185(m)	>20	7	2	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	11.9	11.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.9	24.7	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.2	20.9	---



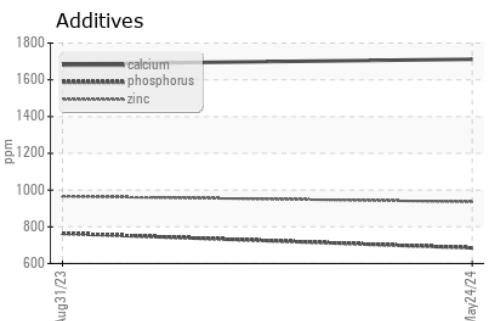
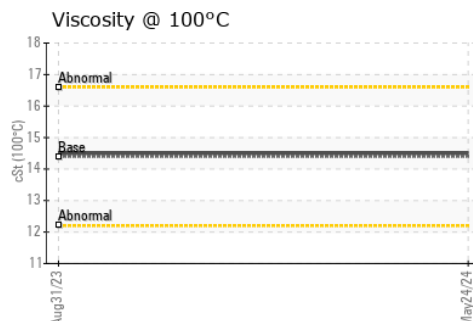
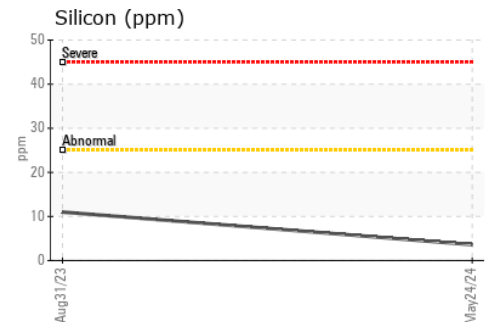
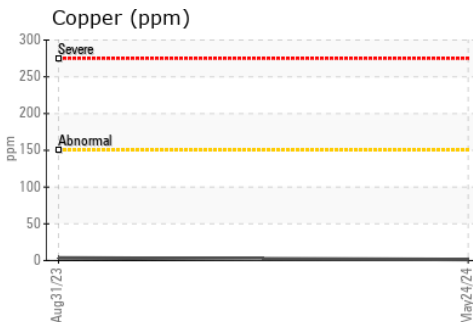
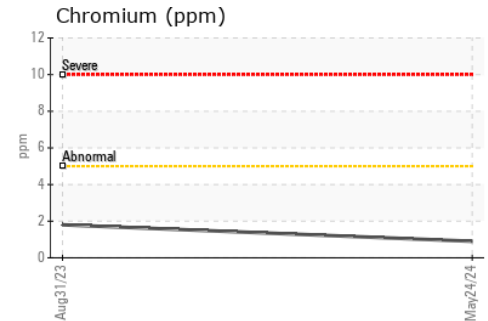
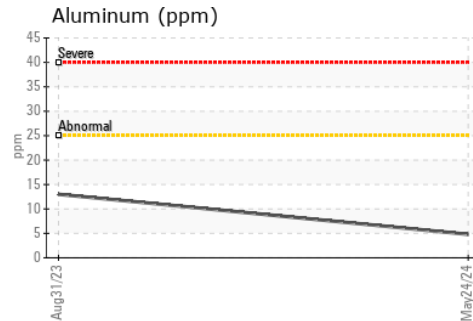
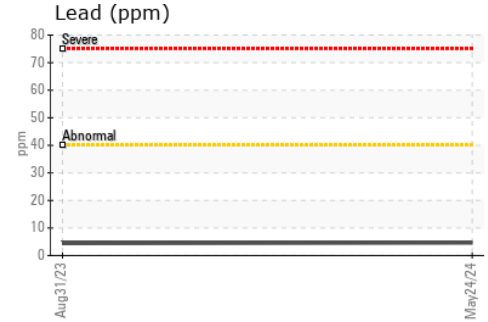
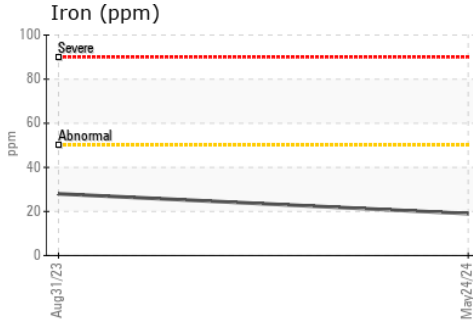
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.5	14.5

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0119224
Lab Number : 02639057
Unique Number : 5788219
Test Package : MOB 1

GFL Environmental - 253 - TOR APT
 15 Bermondsey Road - Building B
 Toronto, ON
 CA M4B 1Y9
 Contact: Natalia Stalynska
 nstalynska@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.