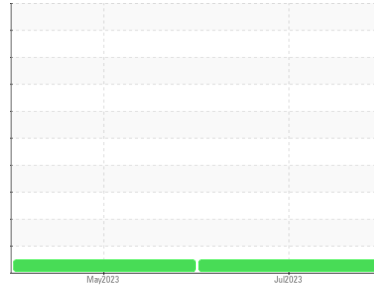




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
911050
 Component
Diesel Engine
 Fluid
NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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		GFL0086481	GFL0081966	---
Sample Date	Client Info		12 Jul 2023	29 May 2023	---
Machine Age	hrs	Client Info	1184	873	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	0.7	---
Glycol	WC Method		NEG	0.0	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	16	70	---
Chromium	ppm	ASTM D5185(m) >20	<1	2	---
Nickel	ppm	ASTM D5185(m) >4	1	10	---
Titanium	ppm	ASTM D5185(m)	0	<1	---
Silver	ppm	ASTM D5185(m) >3	<1	<1	---
Aluminum	ppm	ASTM D5185(m) >20	<1	2	---
Lead	ppm	ASTM D5185(m) >40	<1	5	---
Copper	ppm	ASTM D5185(m) >330	19	121	---
Tin	ppm	ASTM D5185(m) >15	1	5	---
Antimony	ppm	ASTM D5185(m)	0	<1	---
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)	5	3	---
Barium	ppm	ASTM D5185(m)	0	<1	---
Molybdenum	ppm	ASTM D5185(m)	55	1	---
Manganese	ppm	ASTM D5185(m)	<1	5	---
Magnesium	ppm	ASTM D5185(m)	890	67	---
Calcium	ppm	ASTM D5185(m)	1133	2023	---
Phosphorus	ppm	ASTM D5185(m)	1003	856	---
Zinc	ppm	ASTM D5185(m)	1182	1039	---
Sulfur	ppm	ASTM D5185(m)	2418	2384	---
Lithium	ppm	ASTM D5185(m)	<1	<1	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	7	55	---
Sodium	ppm	ASTM D5185(m)	4	8	---
Potassium	ppm	ASTM D5185(m) >20	2	14	---

INFRA-RED

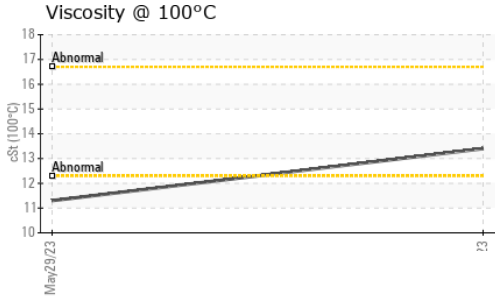
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0.4	0.8	---
Nitration	Abs/cm	ASTM D7624* >20	7.0	7.7	---
Sulfation	Abs/.1mm	ASTM D7415* >30	20.1	23.7	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	14.5	15.2	---



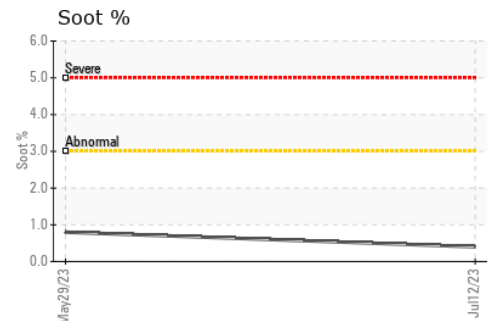
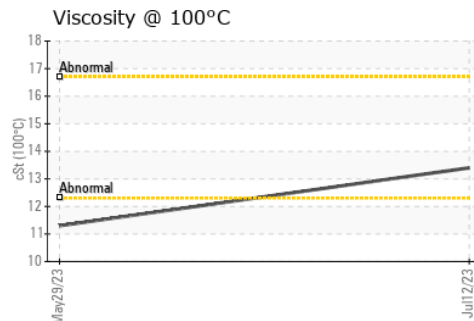
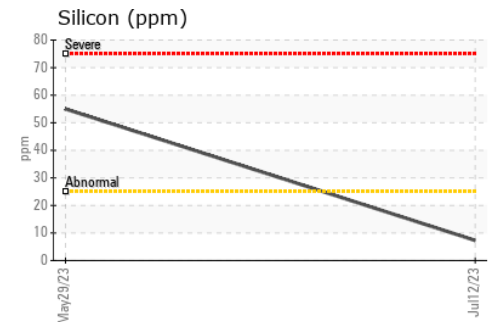
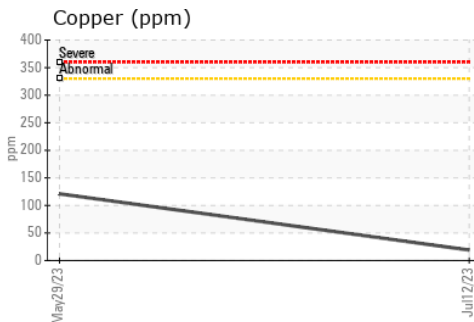
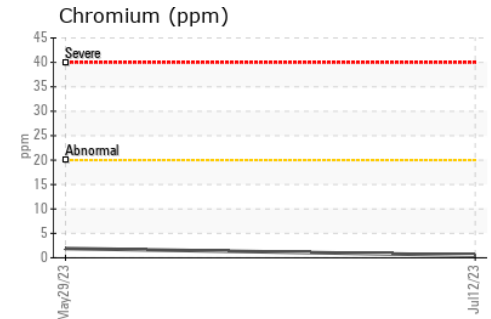
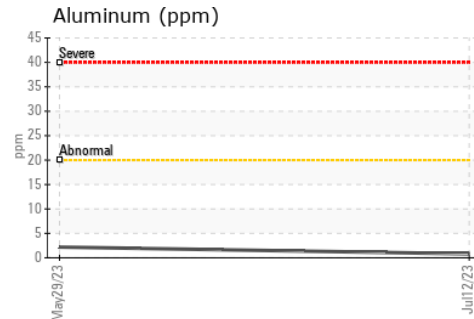
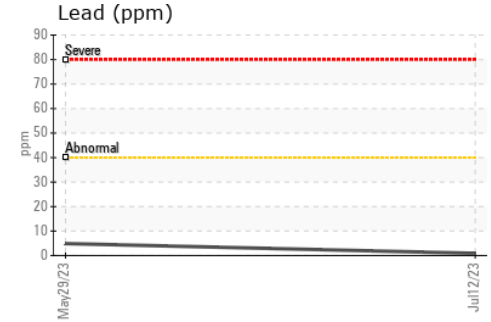
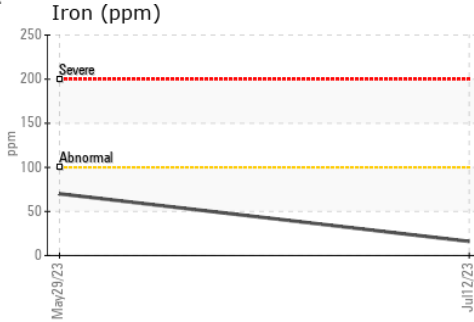
OIL ANALYSIS REPORT



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)	13.4	11.3	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0086481
Lab Number : 02570339
Unique Number : 5607385
Test Package : MOB 1

GFL Environmental - 217 - Aurora
 14131 BAYVIEW AVE, AURORA YARD
 AURORA, ON
 CA L4G 0K6
 Contact: Mike Havens
 MHavens@gflenv.com
 T:
 F: (905)713-2445

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.