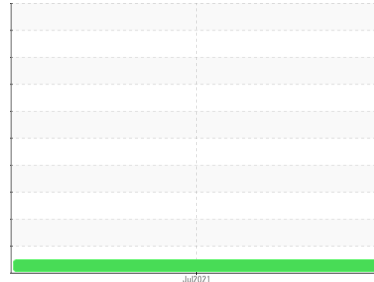




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
910082
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 40 (38)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

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	GFL0030770	---	---
Sample Date	Client Info	29 Jul 2021	---	---
Machine Age	hrs Client Info	1825	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		NORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<1.0	---	---
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >120	17	---	---
Chromium	ppm ASTM D5185(m) >20	<1	---	---
Nickel	ppm ASTM D5185(m) >5	<1	---	---
Titanium	ppm ASTM D5185(m) >2	0	---	---
Silver	ppm ASTM D5185(m) >2	<1	---	---
Aluminum	ppm ASTM D5185(m) >20	1	---	---
Lead	ppm ASTM D5185(m) >40	4	---	---
Copper	ppm ASTM D5185(m) >330	101	---	---
Tin	ppm ASTM D5185(m) >15	1	---	---
Antimony	ppm ASTM D5185(m)	0	---	---
Vanadium	ppm ASTM D5185(m)	0	---	---
Beryllium	ppm ASTM D5185(m)	0	---	---
Cadmium	ppm ASTM D5185(m)	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 250	12	---	---
Barium	ppm ASTM D5185(m) 10	0	---	---
Molybdenum	ppm ASTM D5185(m) 100	62	---	---
Manganese	ppm ASTM D5185(m)	<1	---	---
Magnesium	ppm ASTM D5185(m) 450	966	---	---
Calcium	ppm ASTM D5185(m) 3000	1117	---	---
Phosphorus	ppm ASTM D5185(m) 1150	975	---	---
Zinc	ppm ASTM D5185(m) 1350	1171	---	---
Sulfur	ppm ASTM D5185(m) 4250	2130	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	4	---	---
Sodium	ppm ASTM D5185(m) >216	4	---	---
Potassium	ppm ASTM D5185(m) >20	1	---	---

INFRA-RED

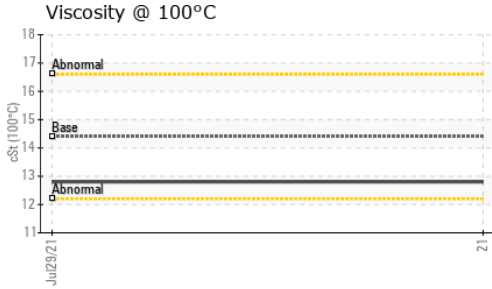
method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >4	0.2	---	---
Nitration	Abs/cm ASTM D7624* >20	8.1	---	---
Sulfation	Abs/.1mm ASTM D7415* >30	20.0	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	16.0	---	---



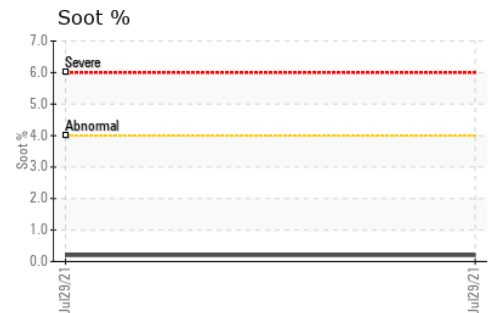
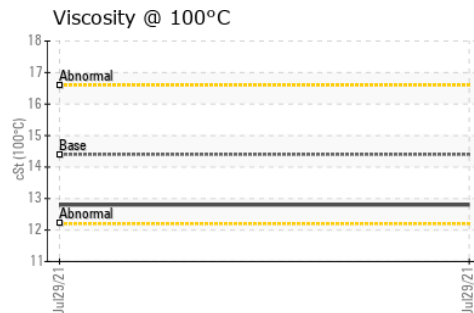
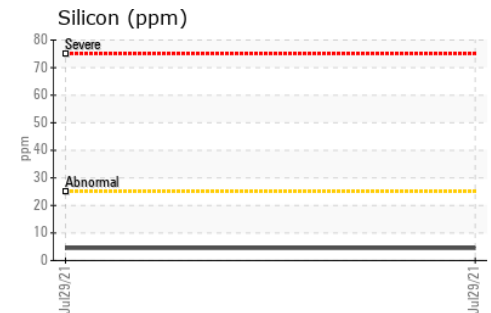
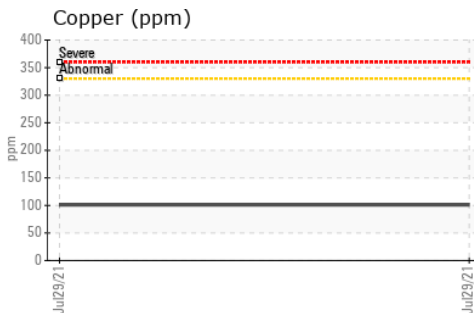
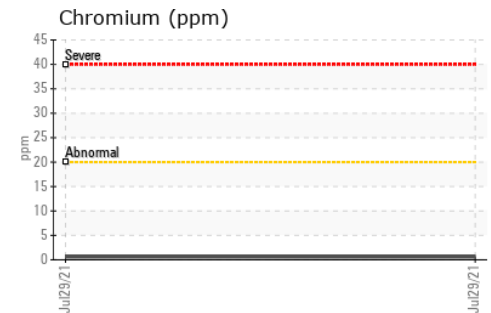
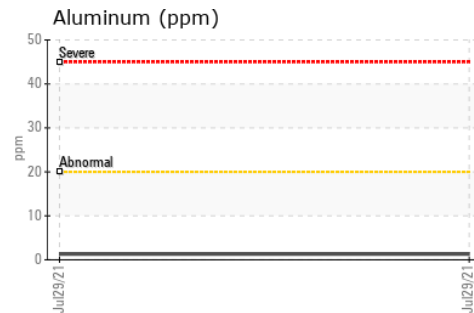
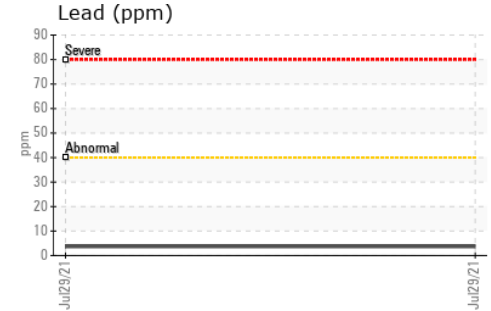
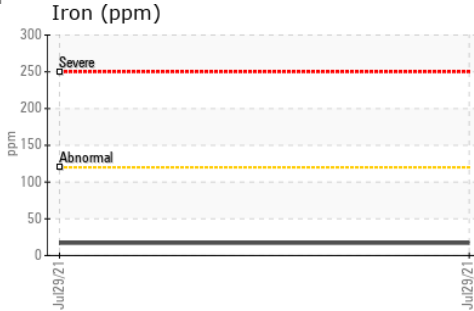
OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	12.8	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0030770
Lab Number : 02437049
Unique Number : 5264580
Test Package : MOB 1

GFL Environmental - 217 - Aurora
 14131 BAYVIEW AVE, AURORA YARD
 AURORA, ON
 CA L4G 0K6
 Contact: Scott Ewan
 SEwan@gflenv.com
 T: (905)713-0005
 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.