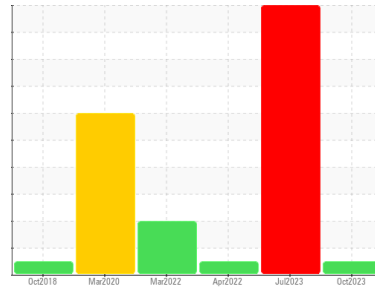




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
9148
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (27 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	GFL0061111	GFL0074287	GFL0049943
Sample Date	Client Info	02 Oct 2023	11 Jul 2023	20 Apr 2022
Machine Age	hrs	17587	17014	14567
Oil Age	hrs	573	2447	32
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	SEVERE	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	---	0.0	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >50	23	110	8
Chromium	ppm ASTM D5185(m) >4	2	7	<1
Nickel	ppm ASTM D5185(m) >2	<1	3	<1
Titanium	ppm ASTM D5185(m)	0	<1	0
Silver	ppm ASTM D5185(m) >3	<1	<1	<1
Aluminum	ppm ASTM D5185(m) >9	5	21	2
Lead	ppm ASTM D5185(m) >30	4	18	1
Copper	ppm ASTM D5185(m) >35	91	223	10
Tin	ppm ASTM D5185(m) >4	<1	2	<1
Antimony	ppm ASTM D5185(m)	0	0	0
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 50	7	4	59
Barium	ppm ASTM D5185(m) 5	<1	0	<1
Molybdenum	ppm ASTM D5185(m) 50	53	59	55
Manganese	ppm ASTM D5185(m) 0	<1	4	<1
Magnesium	ppm ASTM D5185(m) 560	574	657	554
Calcium	ppm ASTM D5185(m) 1510	1633	1668	1400
Phosphorus	ppm ASTM D5185(m) 780	664	996	751
Zinc	ppm ASTM D5185(m) 870	875	947	819
Sulfur	ppm ASTM D5185(m) 2040	1723	1939	2080
Lithium	ppm ASTM D5185(m)	<1	<1	0

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >+100	6	10	10
Sodium	ppm ASTM D5185(m)	8	10	7
Potassium	ppm ASTM D5185(m) >20	<1	<1	1

INFRA-RED

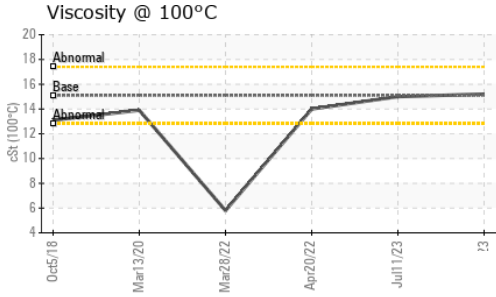
method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	0	0	0
Nitration	Abs/cm ASTM D7624*	11.4	13.6	6.8
Sulfation	Abs./1mm ASTM D7415*	22.6	35.8	20.3

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs./1mm ASTM D7414*	20.7	36.0	15.0



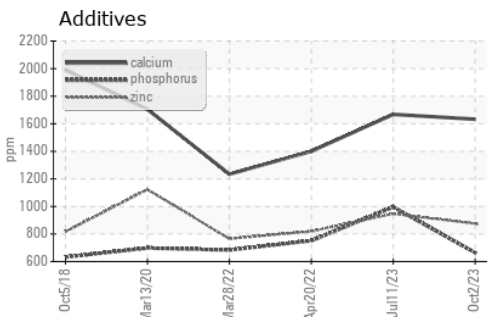
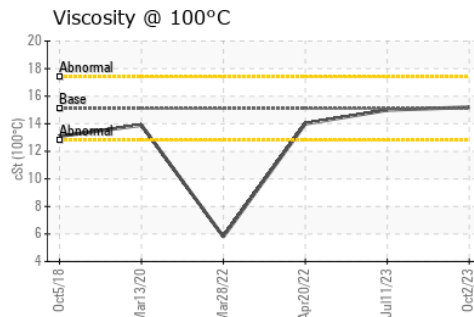
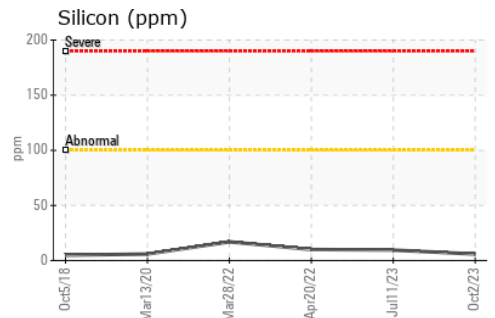
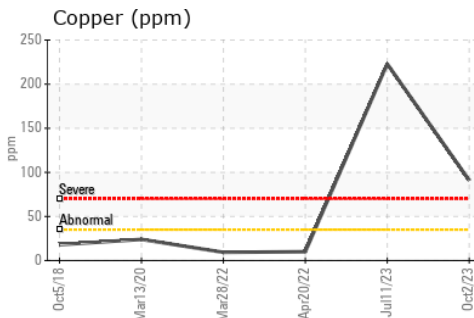
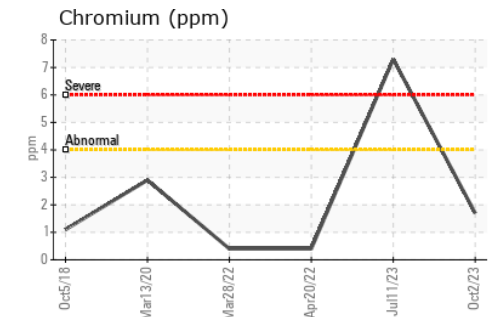
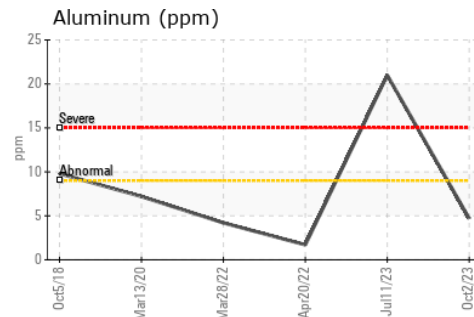
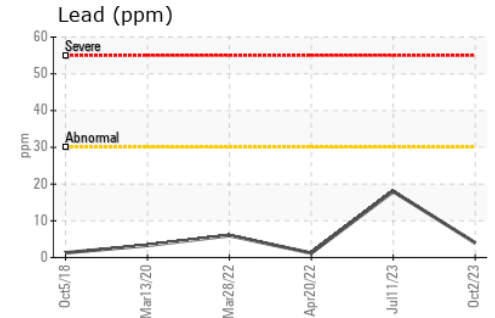
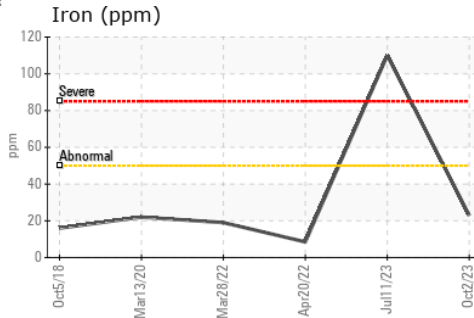
OIL ANALYSIS REPORT



VISUAL	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)	15.1	15.2	15.0

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0061111 **Received** : 04 Oct 2023
Lab Number : 02586714 **Diagnosed** : 04 Oct 2023
Unique Number : 5655780 **Diagnostician** : Wes Davis
Test Package : MOB 1

GFL Environmental - 216
 15 Bermondsey Road, Building B
 Toronto, ON
 CA M4B 1Y9
 Contact: Tom Hatzioannidis
 thatzioannidis@gflenv.com
 T: (416)678-9340
 F:

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.