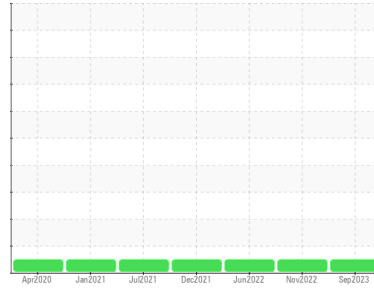




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id

8107

Component

Natural Gas Engine

Fluid

PETRO CANADA DURON GEO LD 15W40 (--- LTR)

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	GFL0086771	GFL0063949	GFL0042903
Sample Date	Client Info	01 Sep 2023	07 Nov 2022	22 Jun 2022
Machine Age	hrs Client Info	16563	16563	3991
Oil Age	hrs Client Info	16563	16563	0
Oil Changed	Client Info	N/A	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)	>50	7	7	10
Chromium ppm ASTM D5185(m)	>4	<1	<1	1
Nickel ppm ASTM D5185(m)	>2	<1	<1	<1
Titanium ppm ASTM D5185(m)		0	<1	0
Silver ppm ASTM D5185(m)	>3	0	0	0
Aluminum ppm ASTM D5185(m)	>9	1	1	2
Lead ppm ASTM D5185(m)	>30	<1	<1	1
Copper ppm ASTM D5185(m)	>35	<1	<1	1
Tin ppm ASTM D5185(m)	>4	0	<1	<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	9	7
Barium ppm ASTM D5185(m)	5	0	0	0
Molybdenum ppm ASTM D5185(m)	50	52	52	55
Manganese ppm ASTM D5185(m)	0	<1	<1	<1
Magnesium ppm ASTM D5185(m)	560	531	521	583
Calcium ppm ASTM D5185(m)	1510	1480	1578	1565
Phosphorus ppm ASTM D5185(m)	780	707	713	778
Zinc ppm ASTM D5185(m)	870	885	893	988
Sulfur ppm ASTM D5185(m)	2040	1988	2044	2123
Lithium ppm ASTM D5185(m)		<1	<1	0

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)	>+100	5	3	4
Sodium ppm ASTM D5185(m)		2	2	3
Potassium ppm ASTM D5185(m)	>20	0	0	<1

INFRA-RED

method	limit/base	current	history1	history2
Soot % ASTM D7844*		0	0	0
Nitration Abs/cm ASTM D7624*	>20	11.6	11.5	11.3
Sulfation Abs/.1mm ASTM D7415*	>30	21.9	23.5	25.0

FLUID DEGRADATION

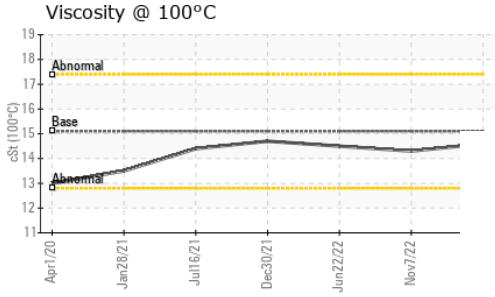
method	limit/base	current	history1	history2
Oxidation Abs/.1mm ASTM D7414*	>25	17.3	18.6	18.4

VISUAL

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

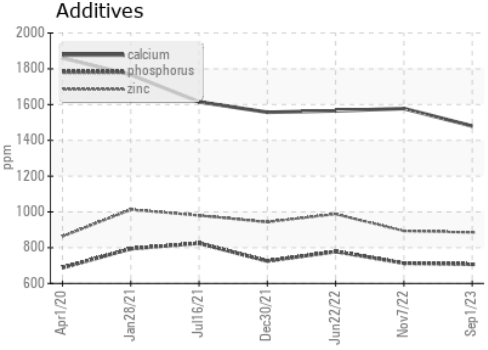
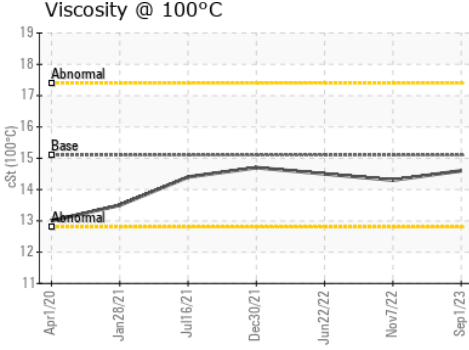
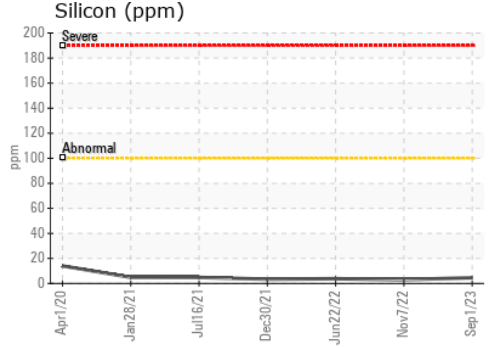
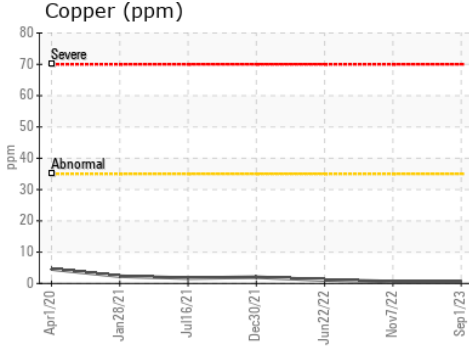
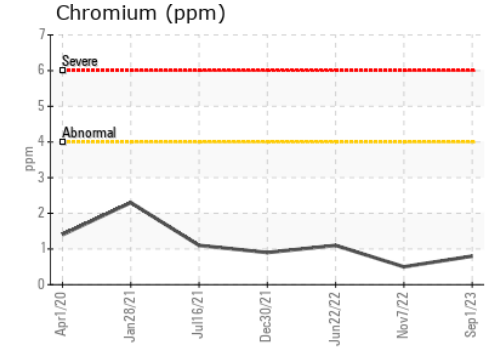
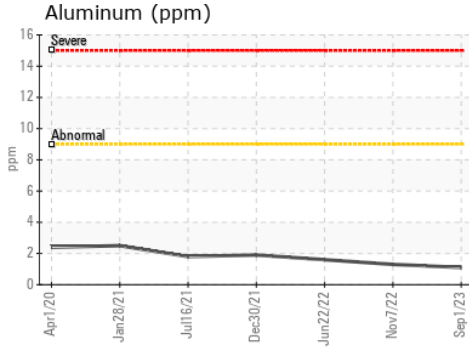
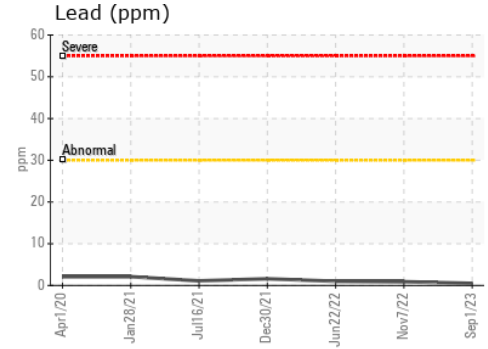
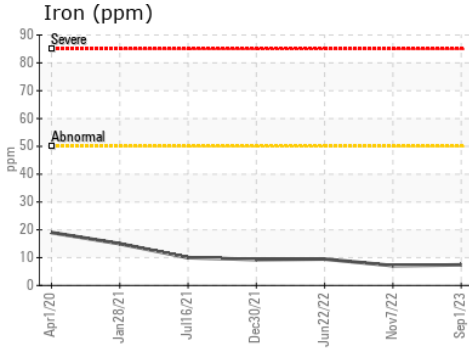


OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.6	14.3	14.5

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0086771
Lab Number : 02580325
Unique Number : 5633385
Test Package : MOB 1

GFL Environmental - 222 - Sandhill
 SANDHILL DISPOSAL & RECYCLING DIVIS, 19 COMMERCE ROAD
 ORANGEVILLE, ON
 CA L9W 3X5
 Contact: GLENN COOK
 gcook@gflenv.com
 T: (519)940-4167
 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.