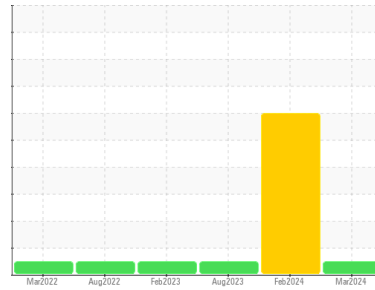




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
731043
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	GFL0085901	GFL0110248	GFL0085860
Sample Date	Client Info	19 Mar 2024	21 Feb 2024	10 Aug 2023
Machine Age	hrs	6668	6512	5383
Oil Age	hrs	50	600	1200
Oil Changed	Client Info	Not Chngd	Changed	Changed
Sample Status		NORMAL	SEVERE	NORMAL

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >50	10	29	10
Chromium	ppm ASTM D5185(m) >4	2	▲ 17	<1
Nickel	ppm ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm ASTM D5185(m)	0	0	0
Silver	ppm ASTM D5185(m) >3	0	0	0
Aluminum	ppm ASTM D5185(m) >9	<1	4	2
Lead	ppm ASTM D5185(m) >30	<1	12	2
Copper	ppm ASTM D5185(m) >35	<1	2	2
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	24	5	7
Barium	ppm ASTM D5185(m) 5	0	0	0
Molybdenum	ppm ASTM D5185(m) 50	50	58	53
Manganese	ppm ASTM D5185(m) 0	0	<1	<1
Magnesium	ppm ASTM D5185(m) 560	616	614	582
Calcium	ppm ASTM D5185(m) 1510	1507	1641	1526
Phosphorus	ppm ASTM D5185(m) 780	758	738	713
Zinc	ppm ASTM D5185(m) 870	908	951	915
Sulfur	ppm ASTM D5185(m) 2040	2052	2185	2025
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >+100	3	4	4
Sodium	ppm ASTM D5185(m)	5	10	8
Potassium	ppm ASTM D5185(m) >20	0	<1	<1

INFRA-RED

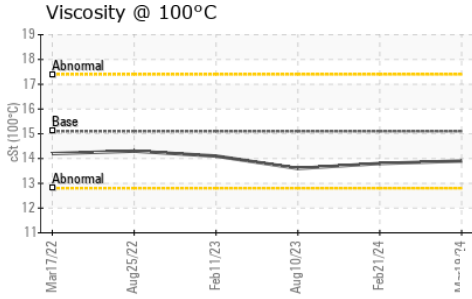
method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	0	0	0
Nitration	Abs/cm ASTM D7624*	7.9	12.4	11.3
Sulfation	Abs/.1mm ASTM D7415*	19.2	27.0	24.1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414*	15.7	21.1	18.2



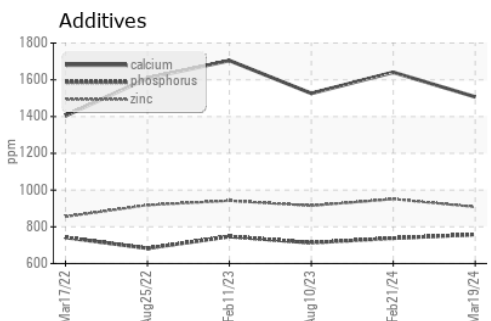
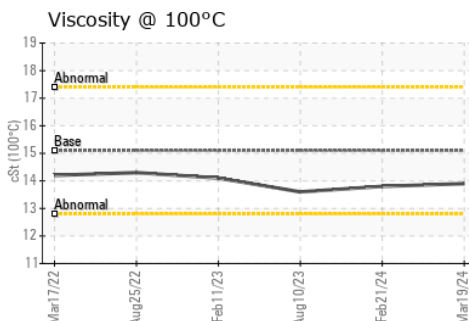
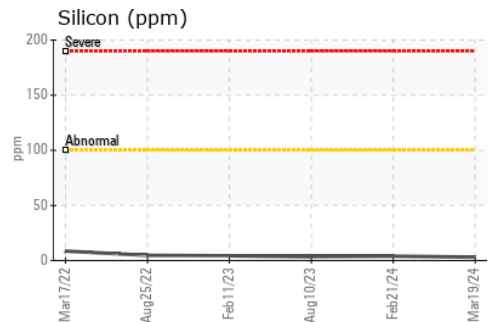
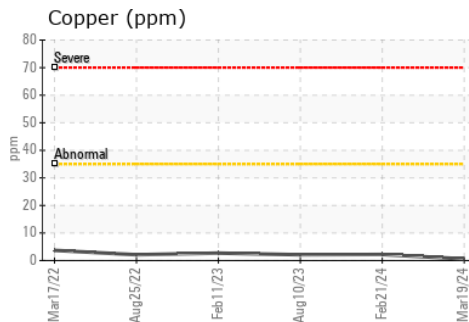
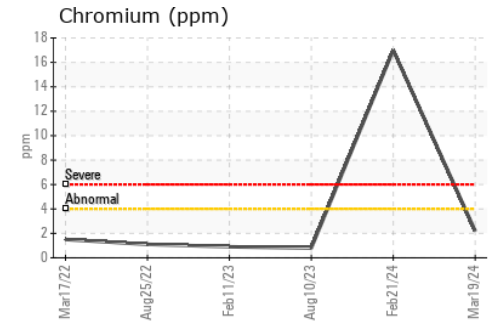
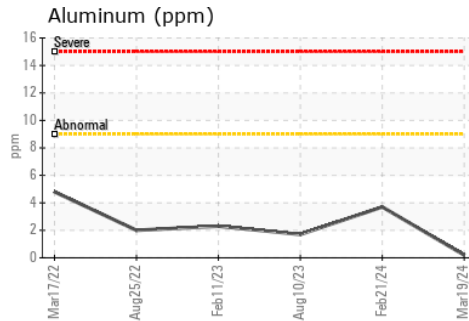
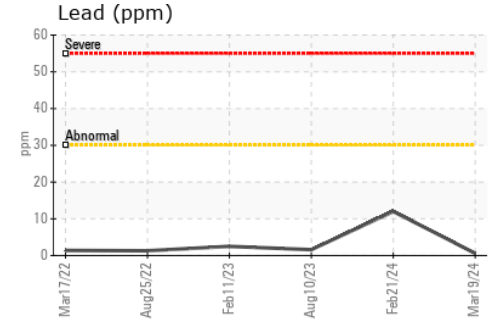
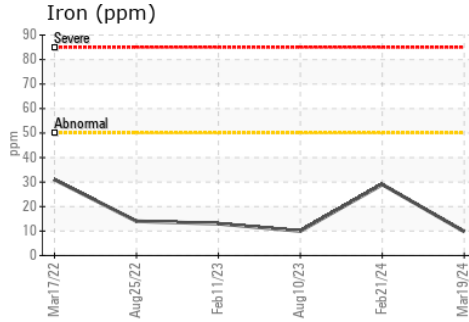
OIL ANALYSIS REPORT



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	13.9	13.8

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0085901
Lab Number : 02623690
Unique Number : 5748809
Test Package : MOB 1

GFL Environmental - 209 - Hamilton
 560 Seaman Street
 Stoney Creek, ON
 CA L8E 3X7
 Contact: Fred Carleton
 fred.carleton@gflenv.com
 T: (289)925-6693
 F: (905)664-9008

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.