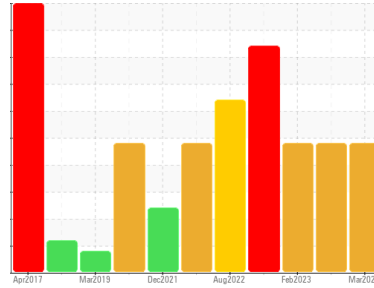




OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id
8406
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Test for glycol is positive. There is a light concentration of glycol present in the oil.

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0102671	GFL0097607	GFL0072864
Sample Date	Client Info	11 Mar 2024	02 Nov 2023	22 Feb 2023
Machine Age	hrs	1067	259149	11834
Oil Age	hrs	0	25750	625
Oil Changed	Client Info	Changed	Changed	Not Changed
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

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	22	29	26
Chromium	ppm ASTM D5185(m) >4	<1	1	1
Nickel	ppm ASTM D5185(m) >2	<1	<1	1
Titanium	ppm ASTM D5185(m)	0	0	<1
Silver	ppm ASTM D5185(m) >3	0	0	0
Aluminum	ppm ASTM D5185(m) >9	2	2	3
Lead	ppm ASTM D5185(m) >30	<1	2	<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	<1
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	2	2	5
Barium	ppm ASTM D5185(m) 5	0	<1	0
Molybdenum	ppm ASTM D5185(m) 50	65	67	59
Manganese	ppm ASTM D5185(m) 0	0	<1	<1
Magnesium	ppm ASTM D5185(m) 560	524	485	556
Calcium	ppm ASTM D5185(m) 1510	1461	1452	1616
Phosphorus	ppm ASTM D5185(m) 780	601	578	814
Zinc	ppm ASTM D5185(m) 870	813	793	882
Sulfur	ppm ASTM D5185(m) 2040	1929	1856	2075
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >+100	3	6	7
Sodium	ppm ASTM D5185(m)	461	501	251
Potassium	ppm ASTM D5185(m) >20	44	46	14
Glycol	% ASTM D7922*	0.01	0.029	0.087

INFRA-RED

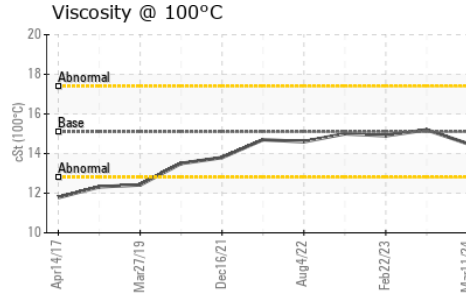
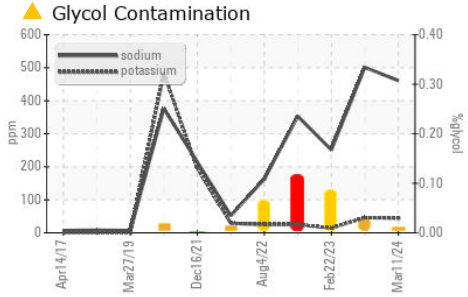
method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	0	0	0
Nitration	Abs/cm ASTM D7624*	12.1	11.8	9.9
Sulfation	Abs/.1mm ASTM D7415*	24.7	23.5	20.6

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414*	20.7	19.3	14.3



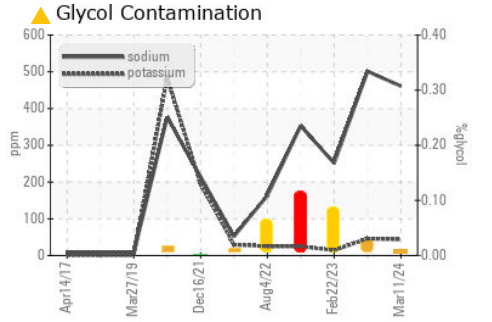
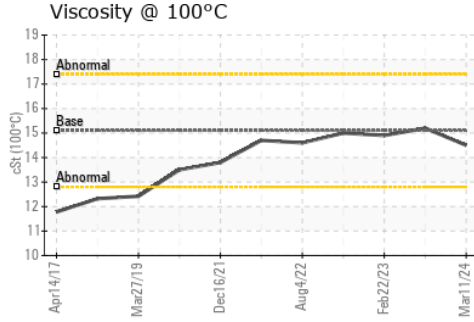
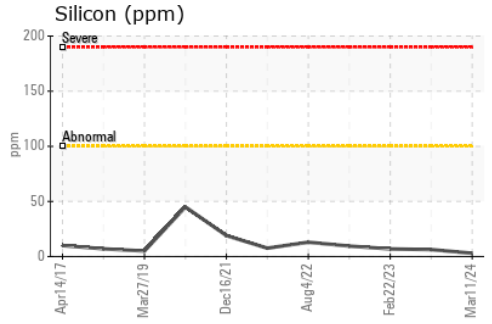
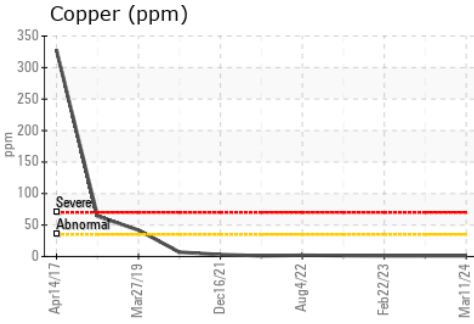
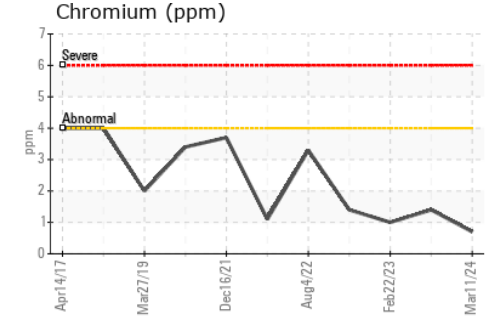
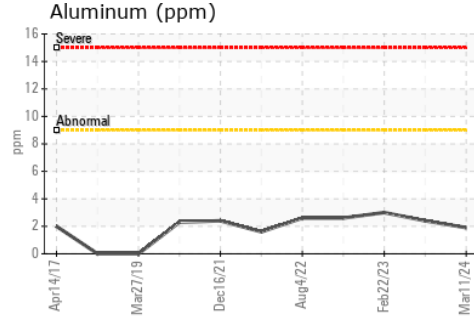
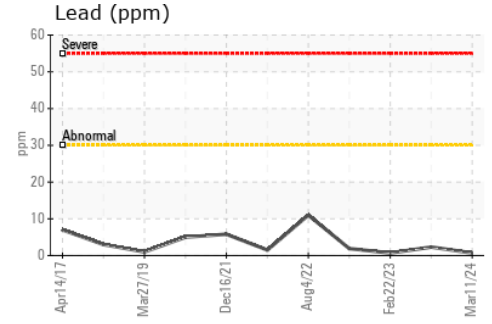
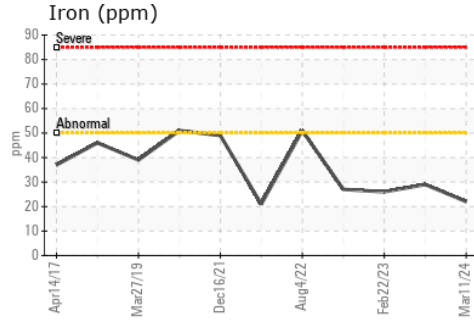
OIL ANALYSIS REPORT



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	14.9

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0102671
Lab Number : 02624188
Unique Number : 5749307
Test Package : MOB 1 (Additional Tests: Glycol)

GFL Environmental - 554 - Edmonton SW
 8409 -15th Street NW
 Edmonton, AB
 CA T6P 0B8
 Contact: Tim Greig
 tgreig@gflenv.com
 T: (780)231-0521
 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.