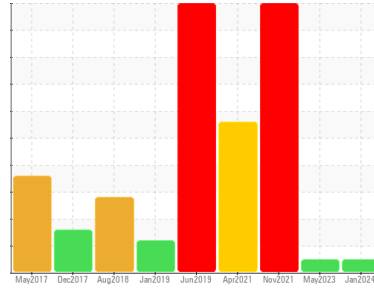




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
8399
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (--- 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	GFL0102624	GFL0077998	GFL0039043
Sample Date	Client Info	25 Jan 2024	18 May 2023	03 Nov 2021
Machine Age	hrs	3694	2251	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	SEVERE

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG
Glycol	WC Method	---	0.0	0.20

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >50	15	16	19
Chromium	ppm ASTM D5185(m) >5	<1	<1	<1
Nickel	ppm ASTM D5185(m) >4	<1	<1	1
Titanium	ppm ASTM D5185(m) >5	0	0	0
Silver	ppm ASTM D5185(m) >3	0	0	<1
Aluminum	ppm ASTM D5185(m) >25	2	2	4
Lead	ppm ASTM D5185(m) >40	2	3	4
Copper	ppm ASTM D5185(m) >150	3	5	125
Tin	ppm ASTM D5185(m) >4	<1	<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	9	8	27
Barium	ppm ASTM D5185(m) 5	0	<1	<1
Molybdenum	ppm ASTM D5185(m) 50	56	57	104
Manganese	ppm ASTM D5185(m) 0	<1	2	1
Magnesium	ppm ASTM D5185(m) 560	597	604	371
Calcium	ppm ASTM D5185(m) 1510	1776	1753	1019
Phosphorus	ppm ASTM D5185(m) 780	724	775	607
Zinc	ppm ASTM D5185(m) 870	956	928	696
Sulfur	ppm ASTM D5185(m) 2040	2121	1984	1744
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	4	7	17
Sodium	ppm ASTM D5185(m)	11	13	1884
Potassium	ppm ASTM D5185(m) >20	1	<1	338

INFRA-RED

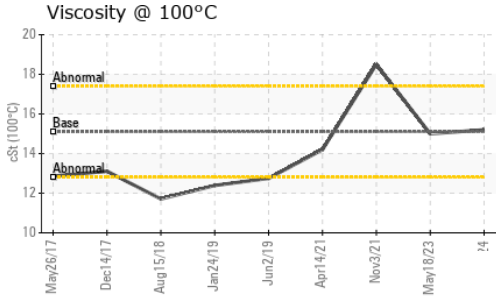
method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	0	0	0
Nitration	Abs/cm ASTM D7624*	13.0	12.8	9.0
Sulfation	Abs/.1mm ASTM D7415*	25.4	25.2	11.2

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414*	21.3	21.6	9.0



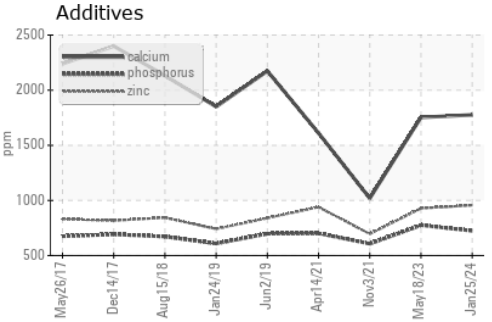
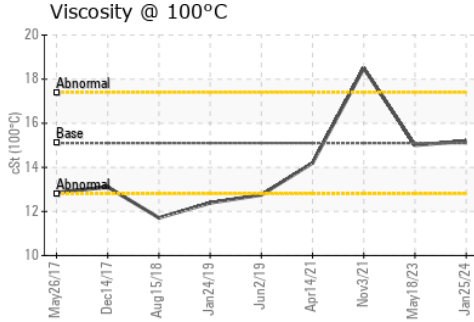
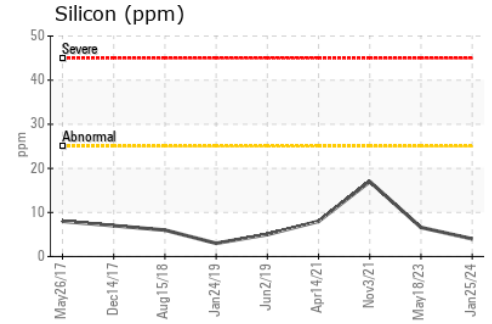
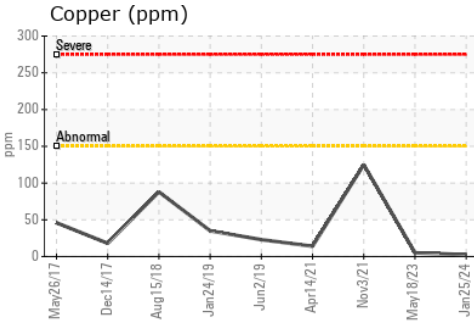
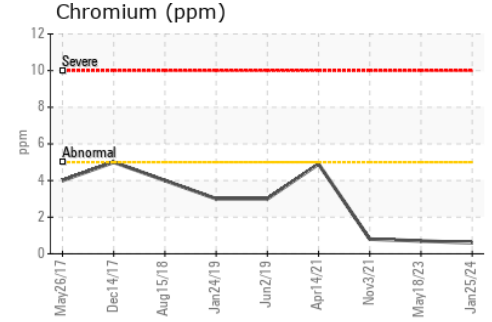
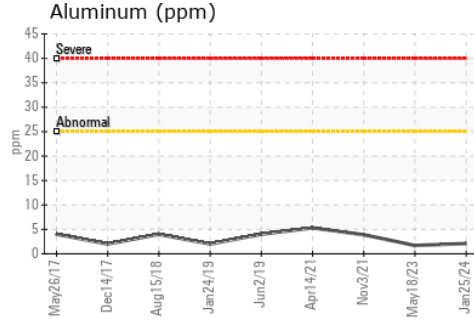
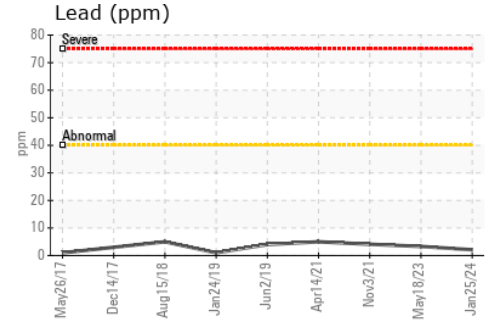
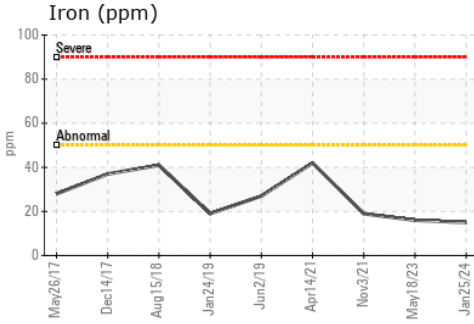
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG ▲ .5%
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 18.5

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW
Sample No. : GFL0102624 **Received** : 06 Feb 2024
Lab Number : 02613724 **Diagnosed** : 06 Feb 2024
Unique Number : 5722819 **Diagnostician** : Wes Davis
Test Package : MOB 1

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.

Contact: Tim Greig
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