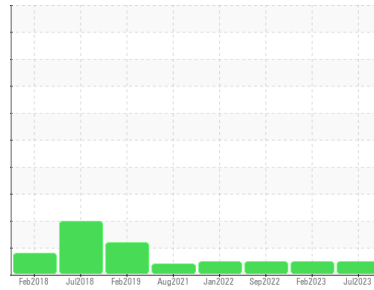




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
901011

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	GFL0085959	GFL0072841	GFL0057739
Sample Date	Client Info	18 Jul 2023	16 Feb 2023	06 Sep 2022
Machine Age	hrs	14197	13086	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	Changed
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >50	19	17	11
Chromium	ppm	ASTM D5185(m) >4	2	2	1
Nickel	ppm	ASTM D5185(m) >2	<1	<1	0
Titanium	ppm	ASTM D5185(m)	0	<1	<1
Silver	ppm	ASTM D5185(m) >3	0	0	0
Aluminum	ppm	ASTM D5185(m) >9	7	7	4
Lead	ppm	ASTM D5185(m) >30	4	<1	<1
Copper	ppm	ASTM D5185(m) >35	1	1	<1
Tin	ppm	ASTM D5185(m) >4	<1	0	<1
Antimony	ppm	ASTM D5185(m)	0	<1	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	5	4	14
Barium	ppm	ASTM D5185(m) 5	0	0	0
Molybdenum	ppm	ASTM D5185(m) 50	53	52	48
Manganese	ppm	ASTM D5185(m) 0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m) 560	587	567	595
Calcium	ppm	ASTM D5185(m) 1510	1613	1671	1443
Phosphorus	ppm	ASTM D5185(m) 780	776	752	848
Zinc	ppm	ASTM D5185(m) 870	916	907	888
Sulfur	ppm	ASTM D5185(m) 2040	1949	1995	1997
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >+100	4	4	4
Sodium	ppm	ASTM D5185(m)	12	10	4
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*	>20	12.5	7.3	8.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.4	19.8	20.3

FLUID DEGRADATION

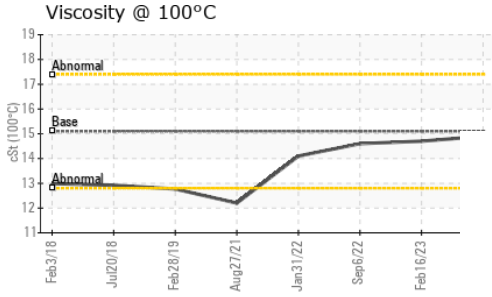
method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.6	12.6	16.6

VISUAL

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

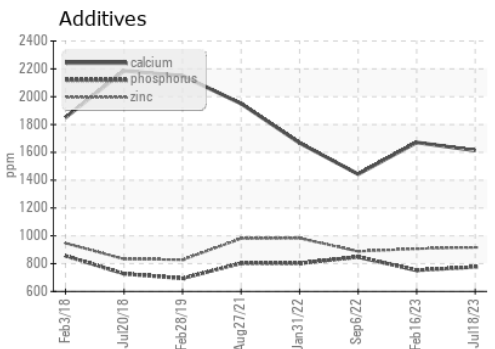
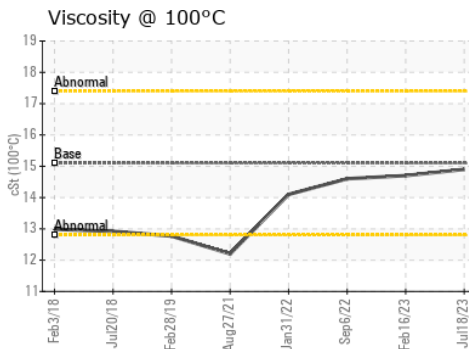
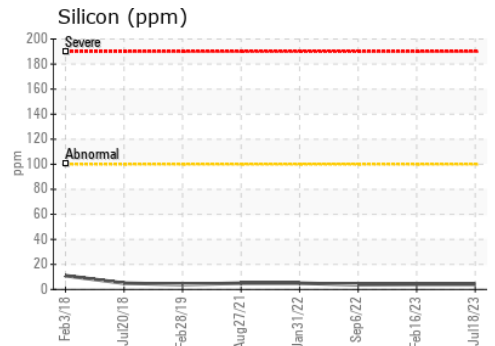
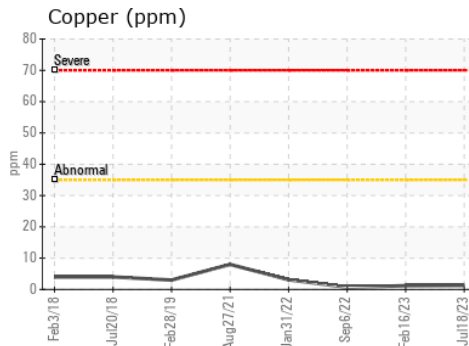
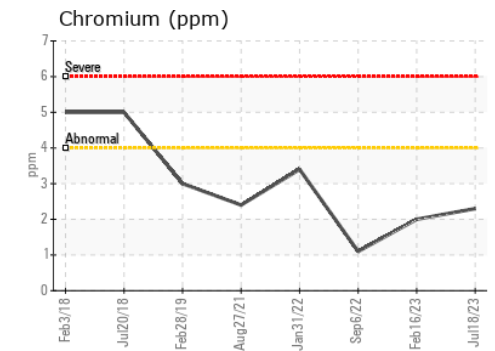
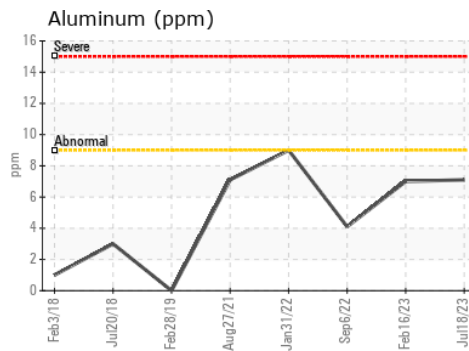
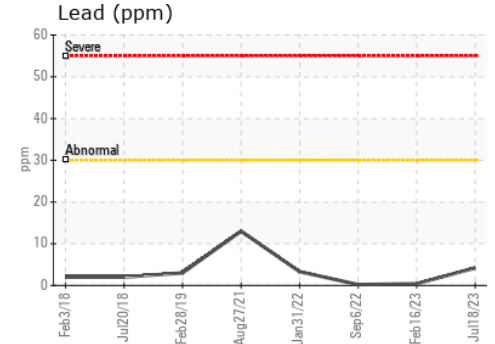
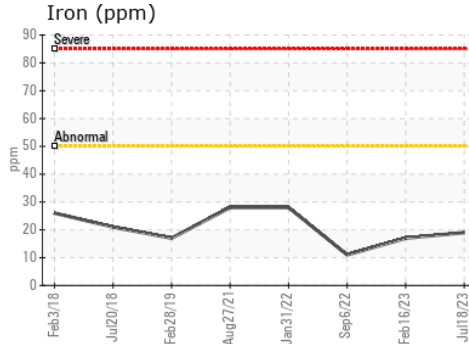


OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.9	14.7	14.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW
Sample No. : GFL0085959 **Received** : 28 Jul 2023
Lab Number : 02572921 **Diagnosed** : 28 Jul 2023
Unique Number : 5617972 **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
 tgreig@gflenv.com
 T:
 F: