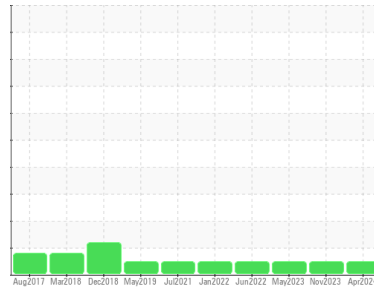




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
8420
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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

Sample Number	Client Info	method	limit/base	current	history1	history2
GFL0112486	GFL0101714					
22 Apr 2024	23 Nov 2023					06 May 2023
Machine Age	hrs	Client Info		543	14399	13392
Oil Age	hrs	Client Info		0	0	0
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

Iron	ppm	ASTM D5185(m)	limit/base	current	history1	history2
			>50	18	15	11
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	1	2	1
Lead	ppm	ASTM D5185(m)	>30	0	1	<1
Copper	ppm	ASTM D5185(m)	>35	3	4	5
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

Boron	ppm	ASTM D5185(m)	limit/base	current	history1	history2
			50	9	5	13
Barium	ppm	ASTM D5185(m)	5	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	52	52	51
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	560	543	526	523
Calcium	ppm	ASTM D5185(m)	1510	1548	1551	1632
Phosphorus	ppm	ASTM D5185(m)	780	643	619	709
Zinc	ppm	ASTM D5185(m)	870	892	870	863
Sulfur	ppm	ASTM D5185(m)	2040	1972	1947	2008
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

Silicon	ppm	ASTM D5185(m)	limit/base	current	history1	history2
			>+100	2	4	3
Sodium	ppm	ASTM D5185(m)		7	9	7
Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1

INFRA-RED

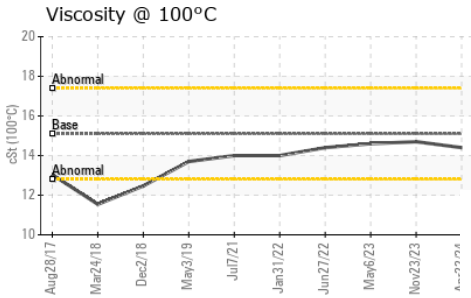
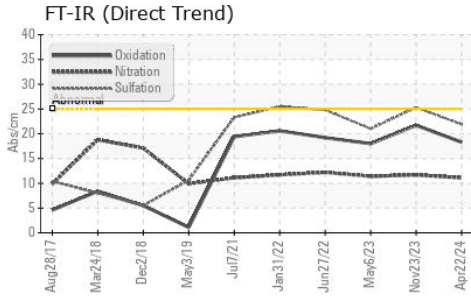
Soot %	%	ASTM D7844*	limit/base	current	history1	history2
				0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.1	11.7	11.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.9	25.3	21.0

FLUID DEGRADATION

Oxidation	Abs/.1mm	ASTM D7414*	limit/base	current	history1	history2
			>25	18.3	21.7	18.0



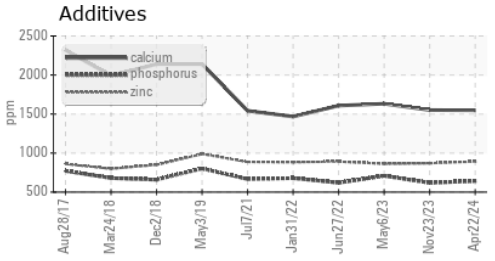
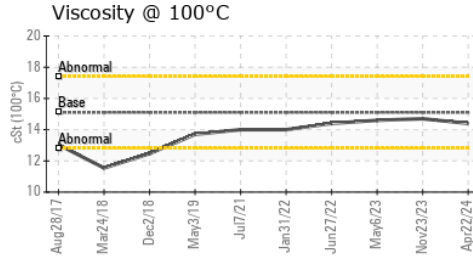
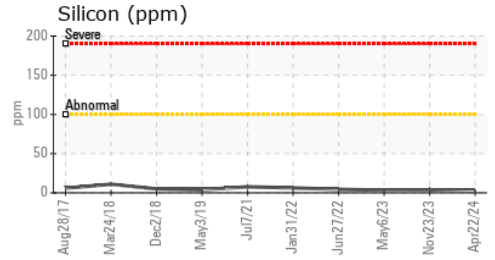
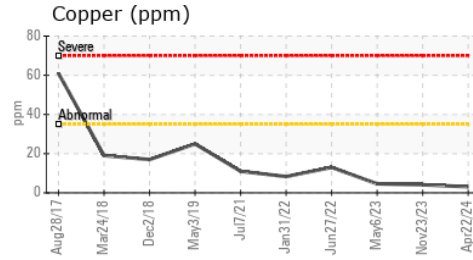
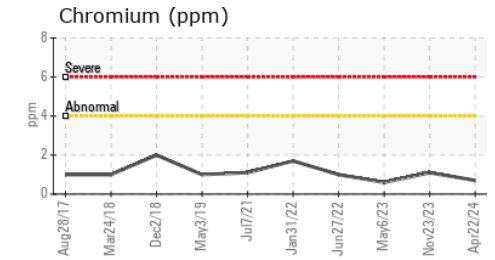
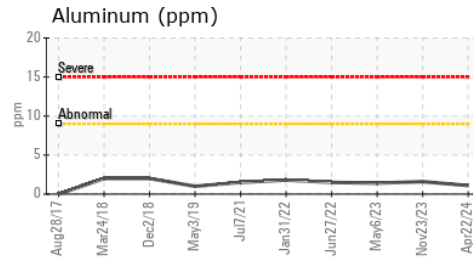
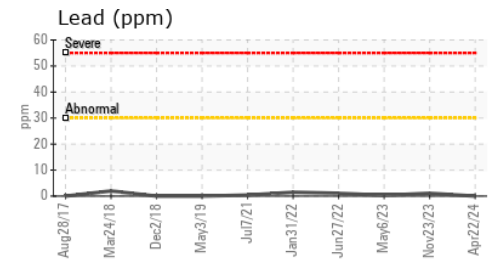
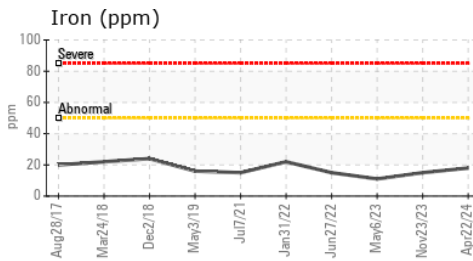
OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	---	---
Precipitate	scalar	Visual*	NONE	---	---
Silt	scalar	Visual*	NONE	---	---
Debris	scalar	Visual*	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	---	---
Appearance	scalar	Visual*	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML
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	14.4	14.7

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112486
Lab Number : 02631559
Unique Number : 5772712
Test Package : MOB 1 (Additional Tests: Visual)
Received : 26 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Wes Davis

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.