



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
833076
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0096837	---	---
Sample Date		Client Info		08 May 2024	---	---
Machine Age	kms	Client Info		31295	---	---
Oil Age	kms	Client Info		2104	---	---
Filter Age	kms	Client Info		2104	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	57	---	---
Chromium	ppm	ASTM D5185(m)	>4	1	---	---
Nickel	ppm	ASTM D5185(m)	>2	2	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>9	5	---	---
Lead	ppm	ASTM D5185(m)	>30	2	---	---
Copper	ppm	ASTM D5185(m)	>35	15	---	---
Tin	ppm	ASTM D5185(m)	>4	2	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

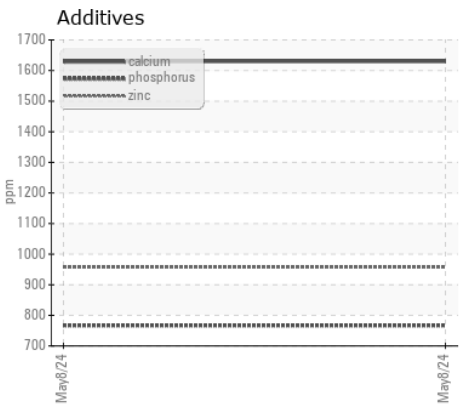
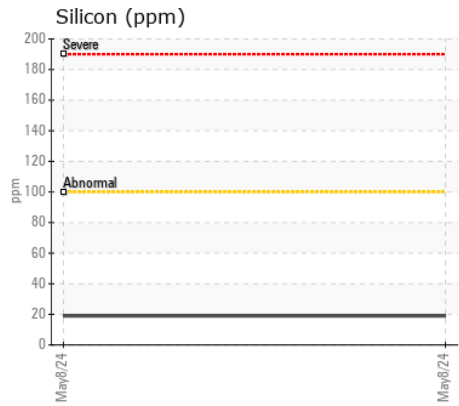
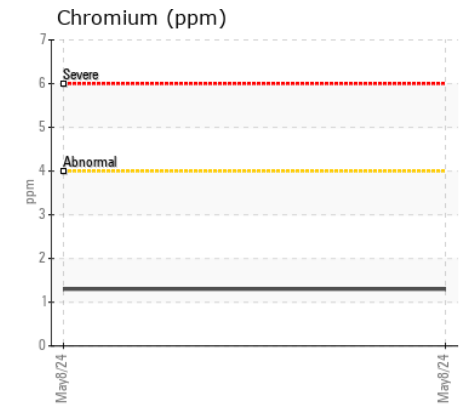
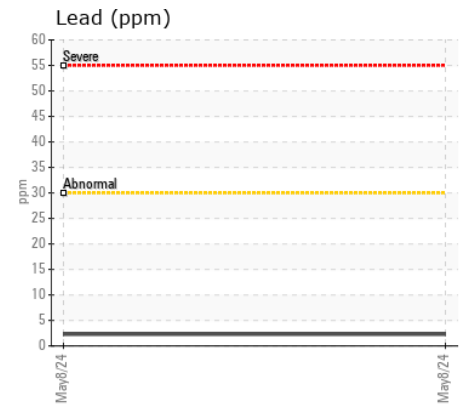
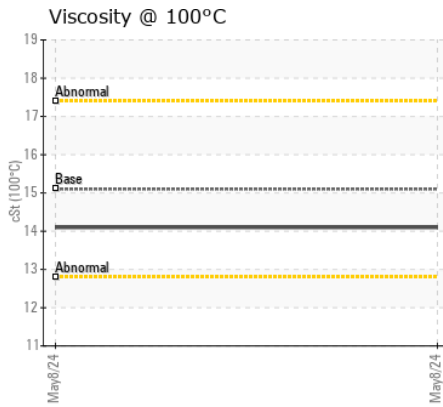
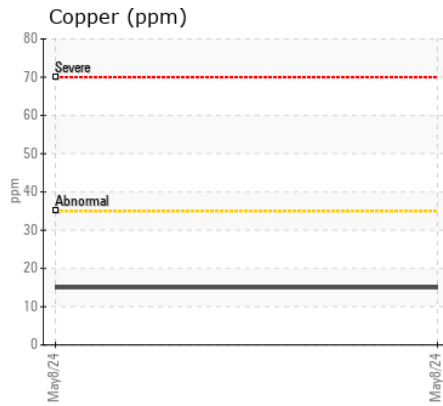
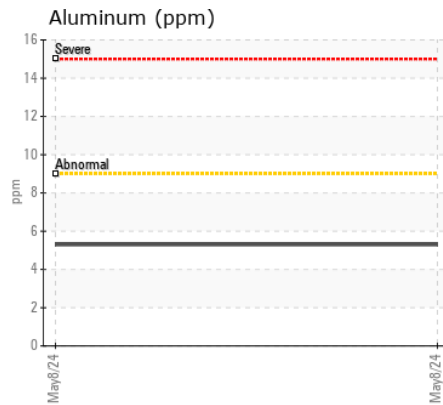
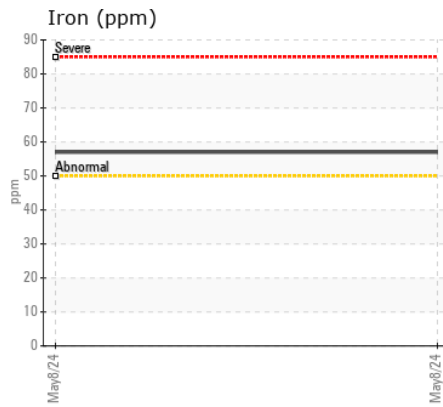
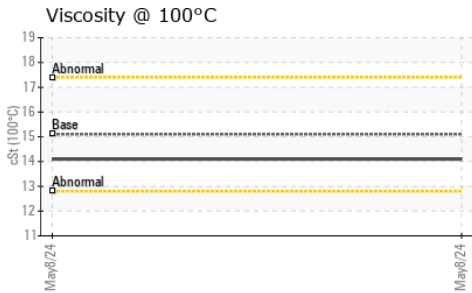
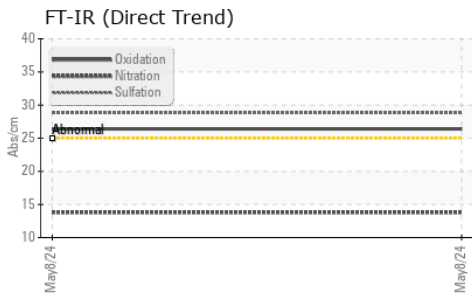
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	19	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Water		WC Method	>0.1	NEG	---	---
Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	13.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	28.8	---	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		6	---	---
Boron	ppm	ASTM D5185(m)	50	11	---	---
Barium	ppm	ASTM D5185(m)	5	3	---	---
Molybdenum	ppm	ASTM D5185(m)	50	110	---	---
Manganese	ppm	ASTM D5185(m)	0	12	---	---
Magnesium	ppm	ASTM D5185(m)	560	746	---	---
Calcium	ppm	ASTM D5185(m)	1510	1630	---	---
Phosphorus	ppm	ASTM D5185(m)	780	767	---	---
Zinc	ppm	ASTM D5185(m)	870	957	---	---
Sulfur	ppm	ASTM D5185(m)	2040	2175	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	26.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.1	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0096837
Lab Number : 02636852
Unique Number : 5786014
Test Package : MOB 1
Received : 22 May 2024
Tested : 22 May 2024
Diagnosed : 22 May 2024 - Kevin Marson

GFL Environmental - 574 - Vancouver Fleet
 70 Golden Drive,
 Coquitlam, BC
 CA V3K 6B5
 Contact: Sanjay Kisun
 skisun@gflenv.com
 T: (604)529-4030
 F: (604)529-4026

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.