



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
833064
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (24 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0118934	GFL0086782	---
Sample Date		Client Info		24 Jun 2024	08 Feb 2024	---
Machine Age	hrs	Client Info		1866	1179	---
Oil Age	hrs	Client Info		1200	1179	---
Filter Age	hrs	Client Info		1200	1179	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	17	61	---
Chromium	ppm	ASTM D5185(m)	>4	<1	1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	2	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	<1	<1	---
Aluminum	ppm	ASTM D5185(m)	>9	2	5	---
Lead	ppm	ASTM D5185(m)	>30	<1	2	---
Copper	ppm	ASTM D5185(m)	>35	4	16	---
Tin	ppm	ASTM D5185(m)	>4	<1	2	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

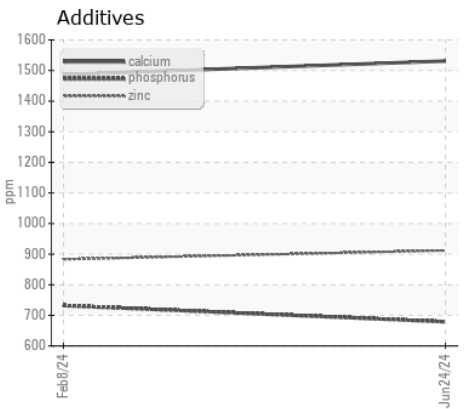
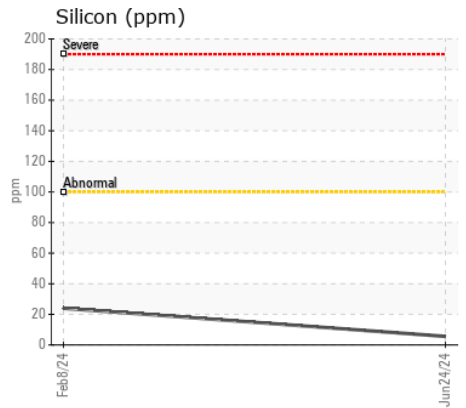
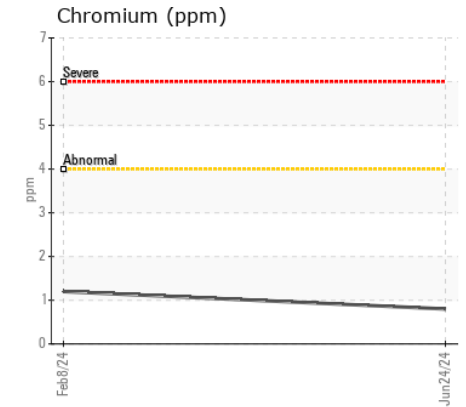
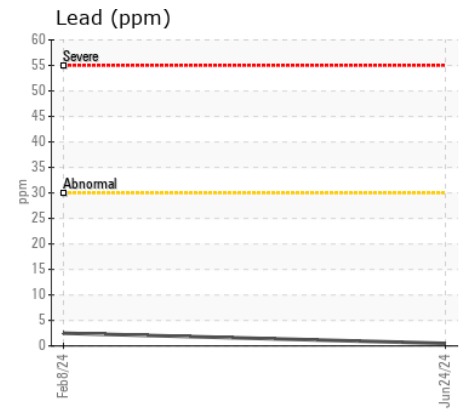
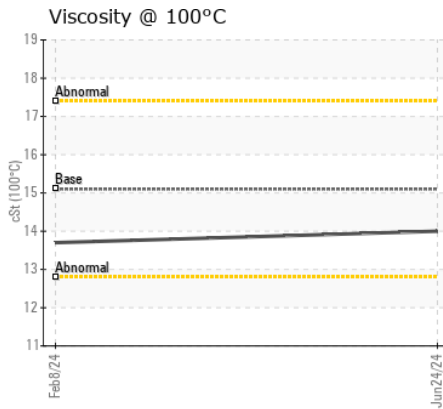
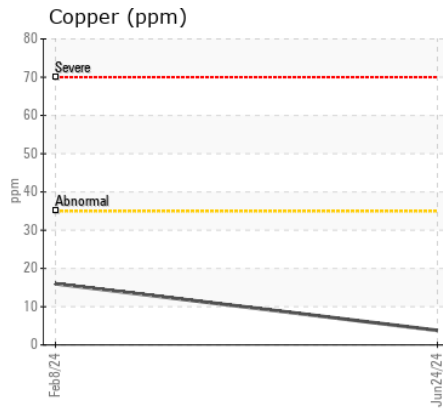
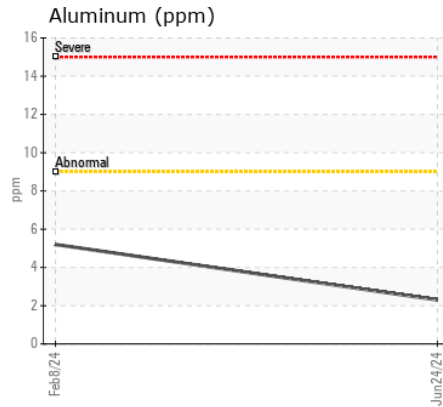
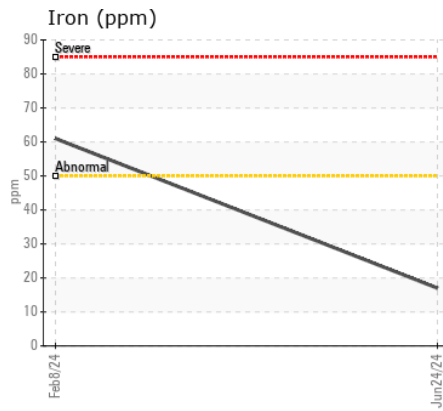
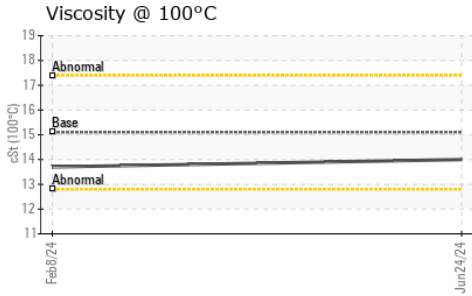
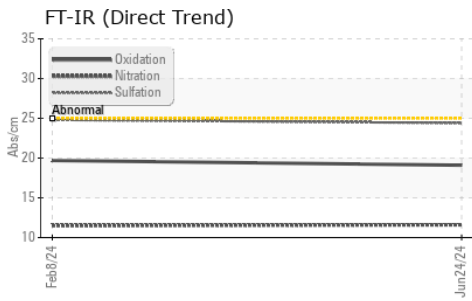
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	6	24	---
Potassium	ppm	ASTM D5185(m)	>20	<1	2	---
Water		WC Method	>0.1	NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	11.6	11.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.4	24.8	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		3	4	---
Boron	ppm	ASTM D5185(m)	50	6	6	---
Barium	ppm	ASTM D5185(m)	5	<1	3	---
Molybdenum	ppm	ASTM D5185(m)	50	59	98	---
Manganese	ppm	ASTM D5185(m)	0	2	11	---
Magnesium	ppm	ASTM D5185(m)	560	571	684	---
Calcium	ppm	ASTM D5185(m)	1510	1531	1487	---
Phosphorus	ppm	ASTM D5185(m)	780	679	732	---
Zinc	ppm	ASTM D5185(m)	870	912	883	---
Sulfur	ppm	ASTM D5185(m)	2040	1960	2261	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.1	19.7	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.0	13.7	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Sample No. : GFL0118934

Lab Number : 02644013

Unique Number : 5801552

Test Package : MOB 1 (Additional Tests: Visual)

Received : 25 Jun 2024

Tested : 25 Jun 2024

Diagnosed : 25 Jun 2024 - Wes Davis

GFL Environmental - 222 - Sandhill

SANDHILL DISPOSAL & RECYCLING DIVIS, 19 COMMERCE ROAD

ORANGEVILLE, ON

CA L9W 3X5

Contact: GLENN COOK

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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.