



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
833070
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (24 LTR)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0118952	GFL0094403	---
Sample Date		Client Info		05 Jun 2024	24 Jan 2024	---
Machine Age	hrs	Client Info		2006	1263	---
Oil Age	hrs	Client Info		2006	1263	---
Filter Age	hrs	Client Info		2006	1263	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	18	58	---
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	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>9	2	6	---
Lead	ppm	ASTM D5185(m)	>30	<1	2	---
Copper	ppm	ASTM D5185(m)	>35	4	18	---
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

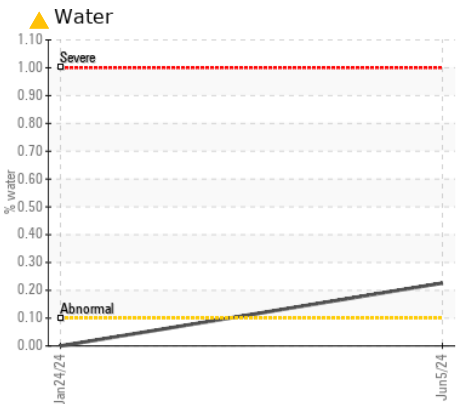
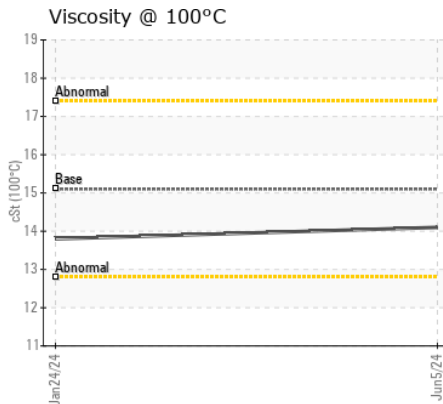
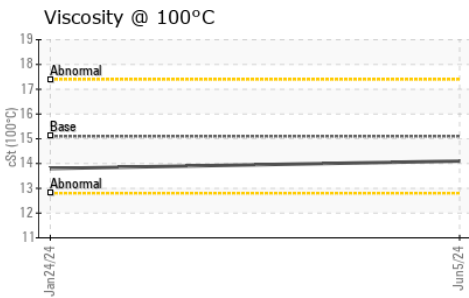
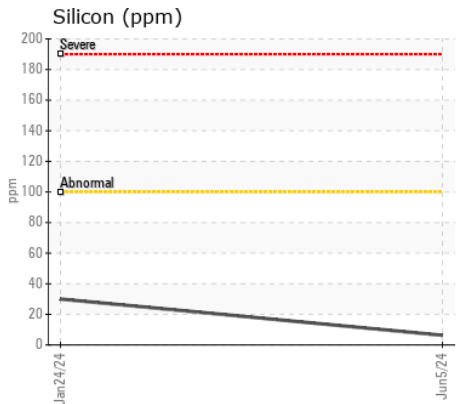
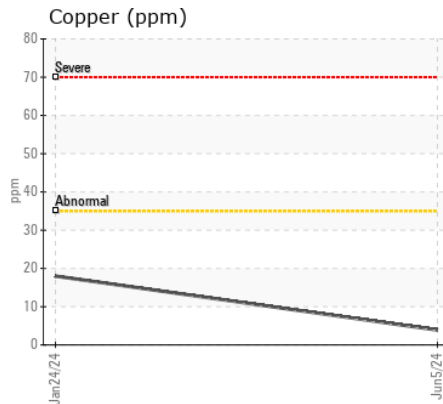
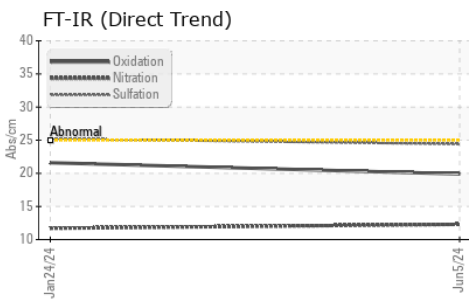
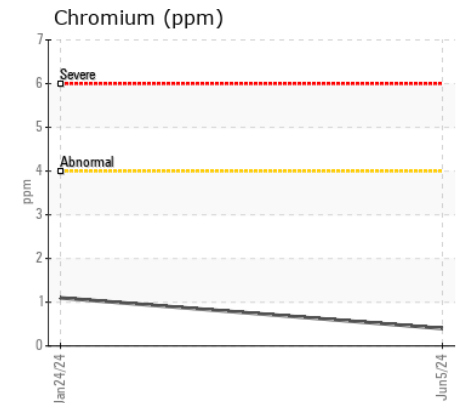
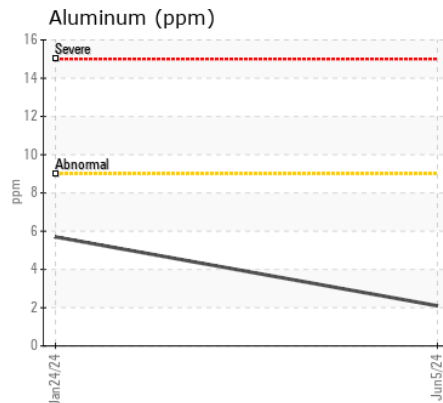
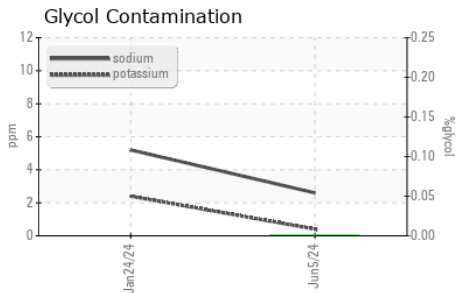
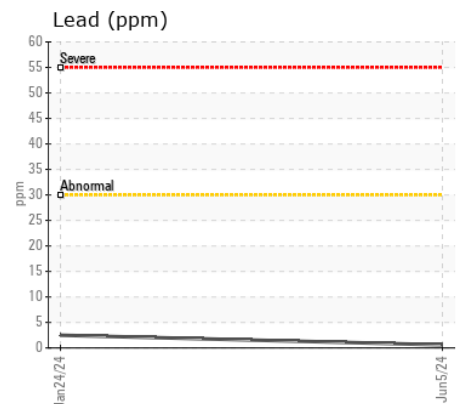
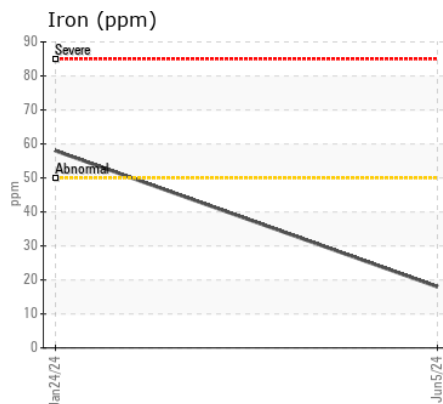
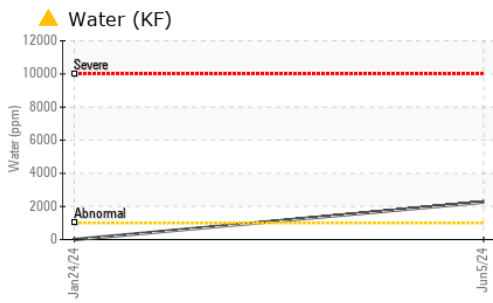
There is a moderate concentration of water present in the oil. Test for glycol is negative.

Silicon	ppm	ASTM D5185(m)	>+100	6	30	---
Potassium	ppm	ASTM D5185(m)	>20	<1	2	---
Water	%	ASTM D6304*	>0.1	▲ 0.226	---	---
ppm Water	ppm	ASTM D6304*	>1000	▲ 2264	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	12.3	11.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.4	25.2	---
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	▲ .2%	NEG	---

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		3	5	---
Boron	ppm	ASTM D5185(m)	50	8	6	---
Barium	ppm	ASTM D5185(m)	5	<1	3	---
Molybdenum	ppm	ASTM D5185(m)	50	61	99	---
Manganese	ppm	ASTM D5185(m)	0	2	14	---
Magnesium	ppm	ASTM D5185(m)	560	597	698	---
Calcium	ppm	ASTM D5185(m)	1510	1610	1426	---
Phosphorus	ppm	ASTM D5185(m)	780	738	734	---
Zinc	ppm	ASTM D5185(m)	870	935	858	---
Sulfur	ppm	ASTM D5185(m)	2040	2026	2239	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.9	21.6	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	14.1	13.8	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0118952 **Received** : 06 Jun 2024
Lab Number : 02640210 **Tested** : 10 Jun 2024
Unique Number : 5789372 **Diagnosed** : 10 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KF, Visual)

GFL Environmental - 222 - Sandhill
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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.