

Machine Id
INTERNATIONAL 828108
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0122274	GFL0071112	---
Sample Date		Client Info		16 May 2024	03 Feb 2023	---
Machine Age	kms	Client Info		15493	277294	---
Oil Age	kms	Client Info		253	0	---
Filter Age	kms	Client Info		253	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	9	10	---
Chromium	ppm	ASTM D5185(m)	>20	0	<1	---
Nickel	ppm	ASTM D5185(m)	>4	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	2	3	---
Lead	ppm	ASTM D5185(m)	>40	0	0	---
Copper	ppm	ASTM D5185(m)	>330	<1	<1	---
Tin	ppm	ASTM D5185(m)	>15	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

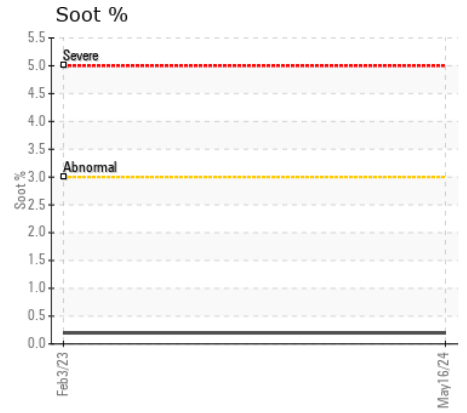
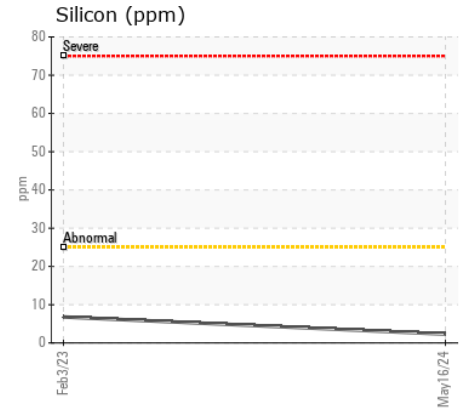
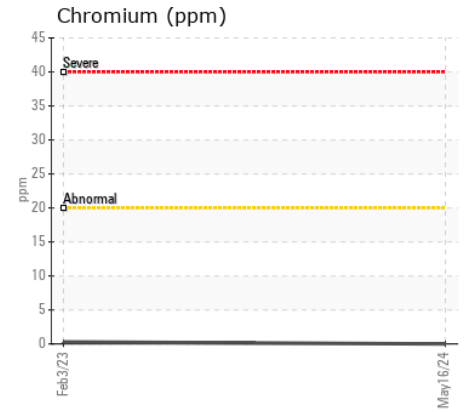
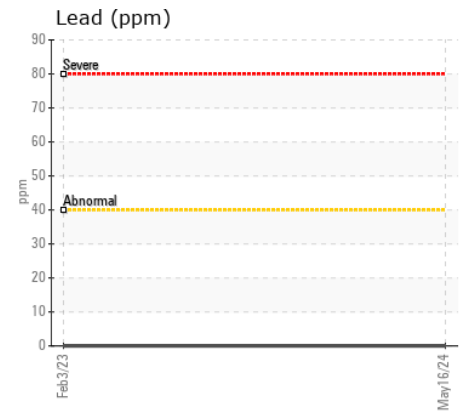
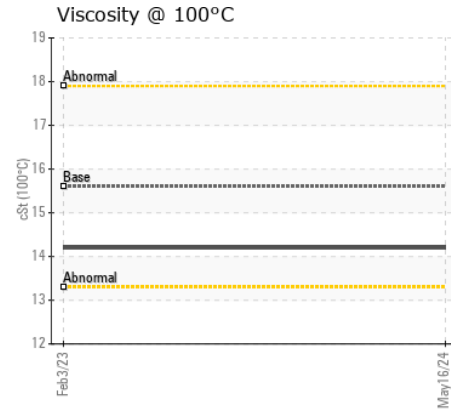
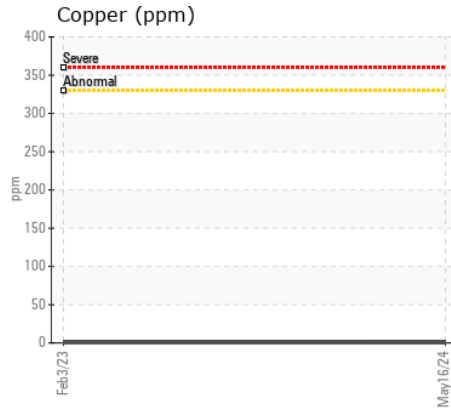
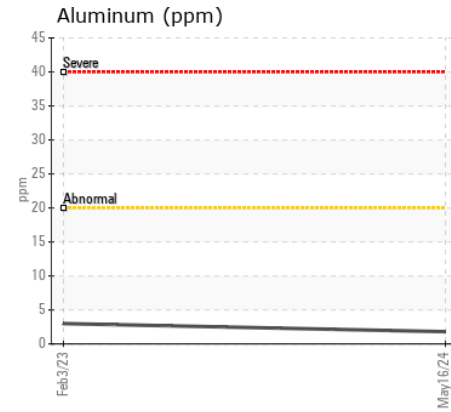
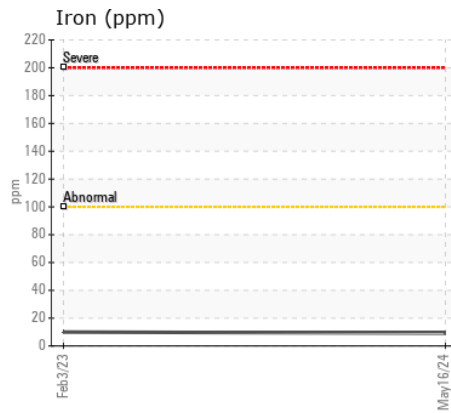
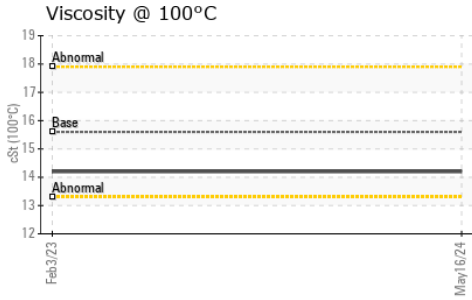
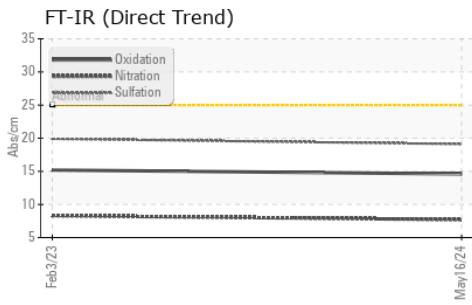
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	7	---
Potassium	ppm	ASTM D5185(m)	>20	2	0	---
Fuel		WC Method	>2.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0.2	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	7.7	8.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.1	19.9	---
Silt	scalar	Visual*	NONE	VLITE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		7	1	---
Boron	ppm	ASTM D5185(m)	0	3	2	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	60	59	60	---
Manganese	ppm	ASTM D5185(m)	0	0	<1	---
Magnesium	ppm	ASTM D5185(m)	1010	951	962	---
Calcium	ppm	ASTM D5185(m)	1070	1034	1100	---
Phosphorus	ppm	ASTM D5185(m)	1150	955	1082	---
Zinc	ppm	ASTM D5185(m)	1270	1162	1196	---
Sulfur	ppm	ASTM D5185(m)	2060	2463	2645	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.6	15.2	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	14.2	14.2	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0122274 **Received** : 24 May 2024
Lab Number : 02637368 **Tested** : 24 May 2024
Unique Number : 5786530 **Diagnosed** : 24 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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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.