

Machine Id
INTERNATIONAL 421057
Component
Diesel Engine
Fluid
PETRO CANADA DURON HP 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0122251	---	---
Sample Date		Client Info		18 Jun 2024	---	---
Machine Age	hrs	Client Info		9592	---	---
Oil Age	hrs	Client Info		589	---	---
Filter Age	hrs	Client Info		589	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	7	---	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---	---
Nickel	ppm	ASTM D5185(m)	>4	<1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	2	---	---
Lead	ppm	ASTM D5185(m)	>40	<1	---	---
Copper	ppm	ASTM D5185(m)	>330	<1	---	---
Tin	ppm	ASTM D5185(m)	>15	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

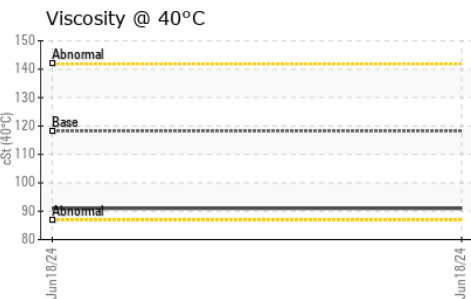
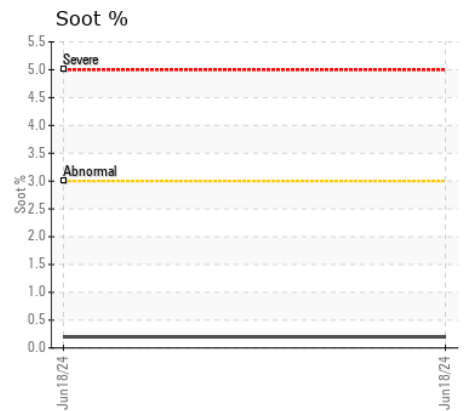
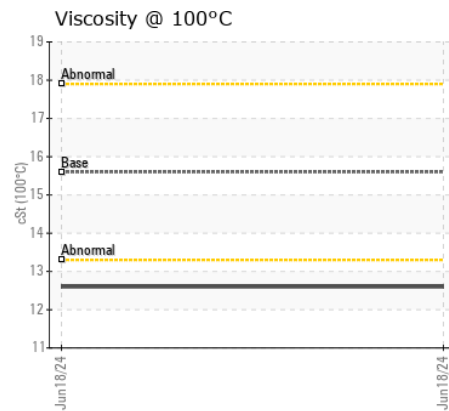
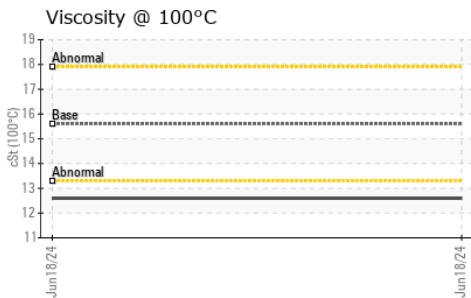
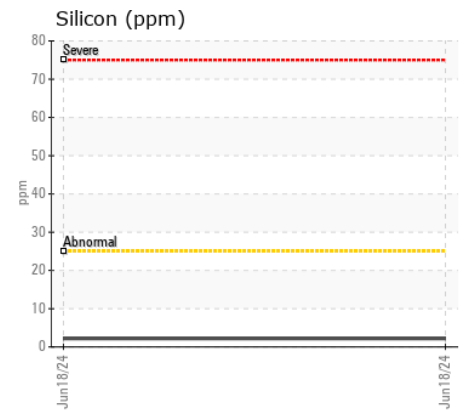
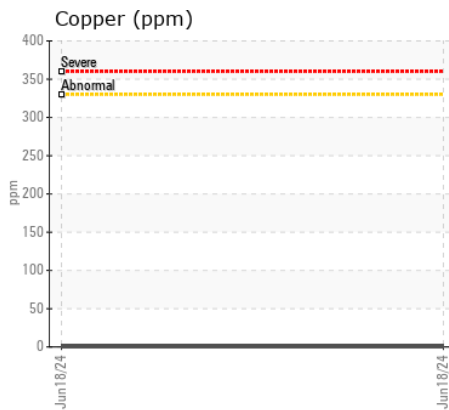
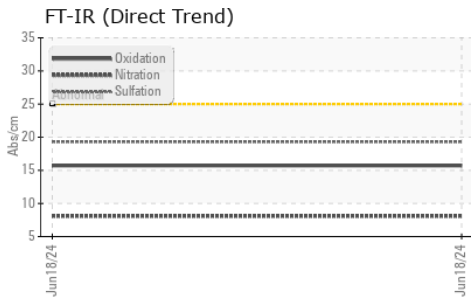
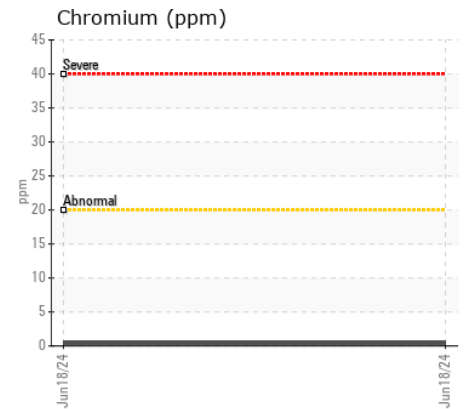
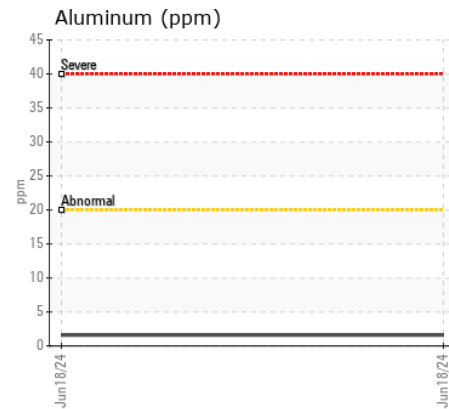
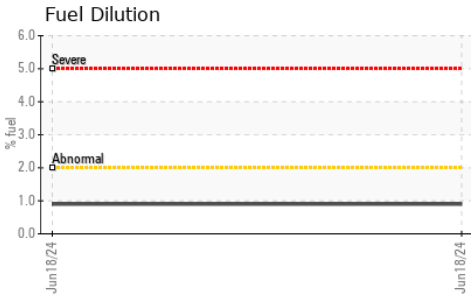
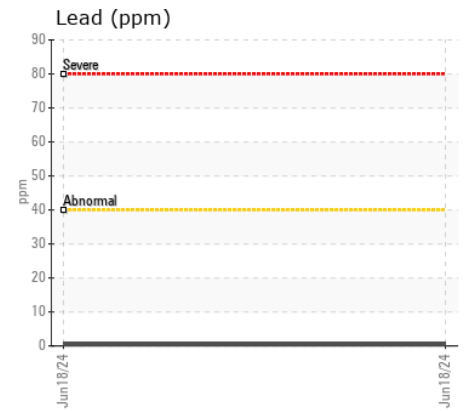
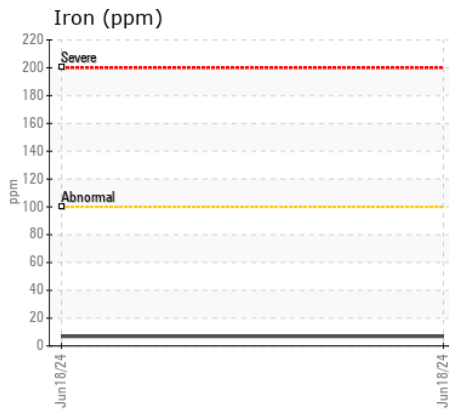
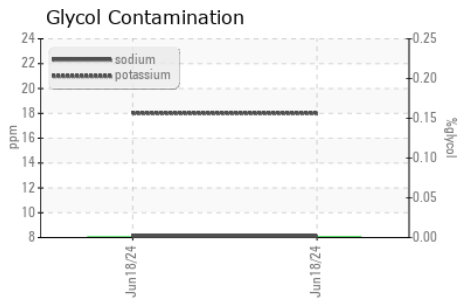
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	---	---
Potassium	ppm	ASTM D5185(m)	>20	18	---	---
Fuel	%	ASTM D7593*	>2.0	0.9	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*	>3	0.2	---	---
Nitration	Abs/cm	ASTM D7624*	>20	8.1	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	---	---
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	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		8	---	---
Boron	ppm	ASTM D5185(m)	0	3	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	60	60	---	---
Manganese	ppm	ASTM D5185(m)	0	<1	---	---
Magnesium	ppm	ASTM D5185(m)	1010	957	---	---
Calcium	ppm	ASTM D5185(m)	1070	1060	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	984	---	---
Zinc	ppm	ASTM D5185(m)	1270	1199	---	---
Sulfur	ppm	ASTM D5185(m)	2060	2512	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.7	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	91.0	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	12.6	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	139	134	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 987 - Charlottetown**
Sample No. : GFL0122251 **Received** : 28 Jun 2024 7 Superior Crescent
Lab Number : 02644531 **Tested** : 02 Jul 2024 Charlottetown, PE
Unique Number : 5802070 **Diagnosed** : 02 Jul 2024 - Wes Davis CA C1A 7N5
Test Package : MOB 1 (Additional Tests: FuelDilution, Glycol, KV40, PercentFuel, VI, Visual) **Contact:** Vicki Metcalfe
 To discuss this sample report, contact Customer Service at 1-800-268-2131. vmetcalfe@gflenv.com
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (782)377-5918
 Validity of results and interpretation are based on the sample and information as supplied. F: (506)453-9490