



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
522001
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0089829	---	---
Sample Date		Client Info		07 Jun 2024	---	---
Machine Age	hrs	Client Info		19143	---	---
Oil Age	hrs	Client Info		570	---	---
Filter Age	hrs	Client Info		570	---	---
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)	>120	9	---	---
Chromium	ppm	ASTM D5185(m)	>20	<1	---	---
Nickel	ppm	ASTM D5185(m)	>15	1	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	3	---	---
Lead	ppm	ASTM D5185(m)	>40	<1	---	---
Copper	ppm	ASTM D5185(m)	>330	1	---	---
Tin	ppm	ASTM D5185(m)	>15	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

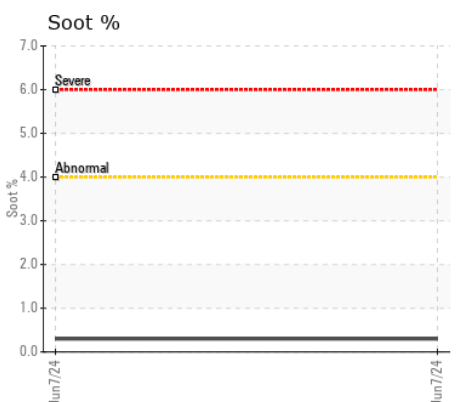
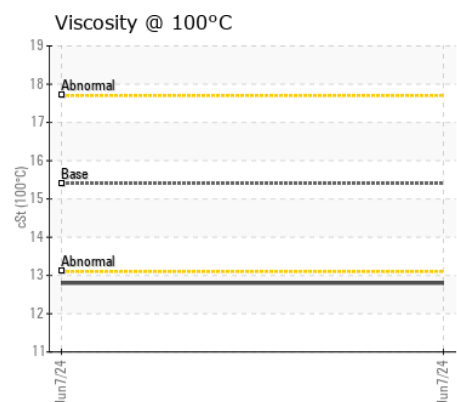
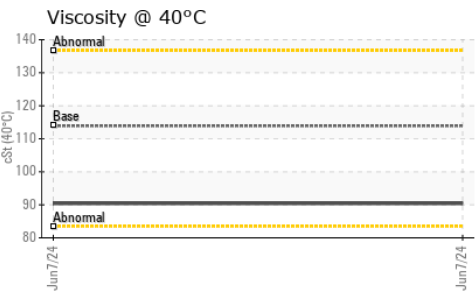
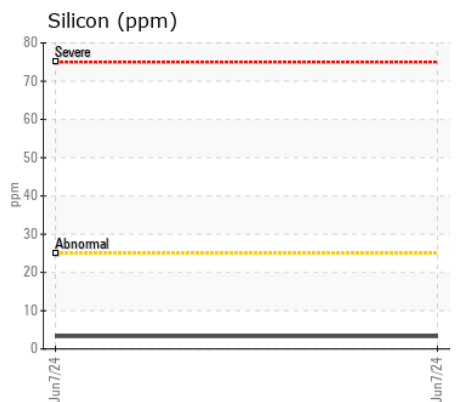
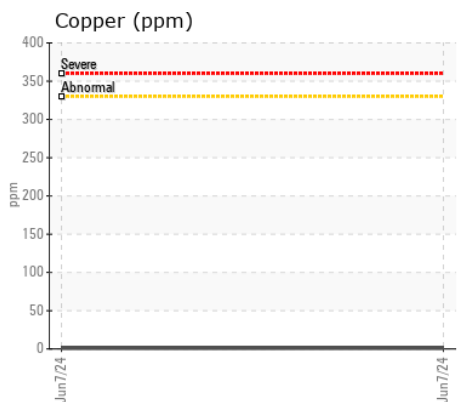
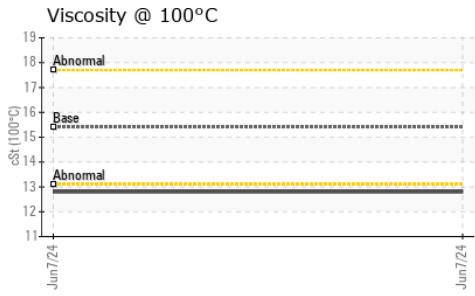
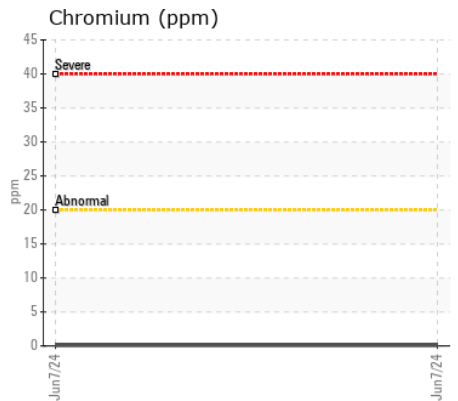
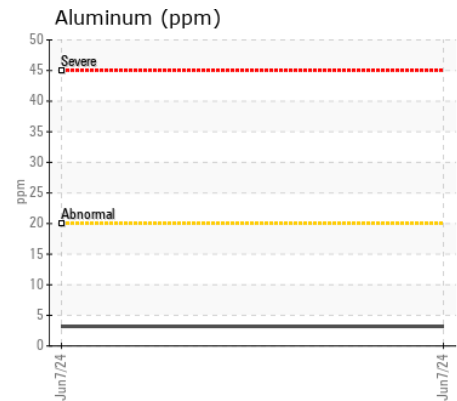
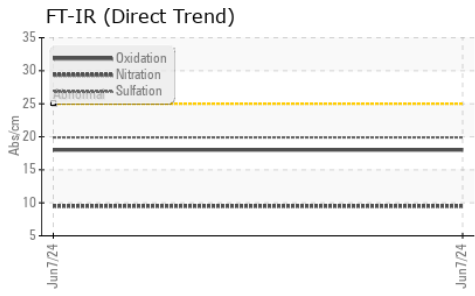
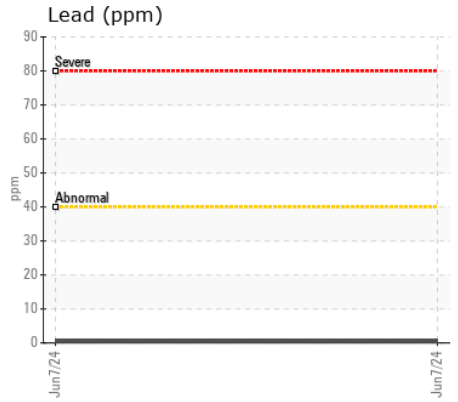
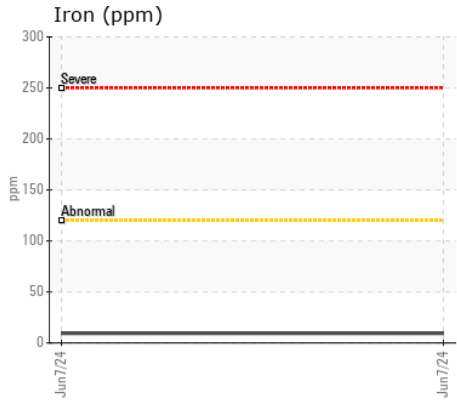
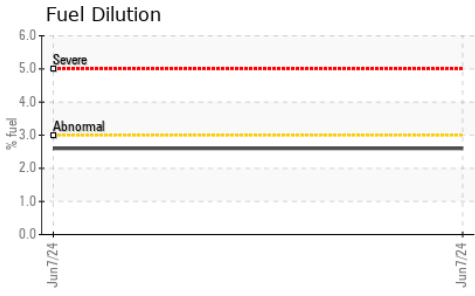
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Fuel	%	ASTM D7593*	>3.0	2.6	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>4	0.3	---	---
Nitration	Abs/cm	ASTM D7624*	>20	9.5	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	---	---
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)		4	---	---
Boron	ppm	ASTM D5185(m)	0	1	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	60	56	---	---
Manganese	ppm	ASTM D5185(m)	0	<1	---	---
Magnesium	ppm	ASTM D5185(m)	1010	908	---	---
Calcium	ppm	ASTM D5185(m)	1070	1000	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	909	---	---
Zinc	ppm	ASTM D5185(m)	1270	1123	---	---
Sulfur	ppm	ASTM D5185(m)	2060	2469	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.0	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	113.9	90.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.8	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	142	139	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental DO NOT USE_USE GFL582**
Sample No. : GFL0089829 **Received** : 02 Jul 2024 4624 Cumberland Road
Lab Number : 02644773 **Tested** : 03 Jul 2024 Cumberland, BC
Unique Number : 5802312 **Diagnosed** : 03 Jul 2024 - Wes Davis CA V0R 1S0
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI, Visual) Contact: Kyle Fallowfield
 kfallowfield@gflenv.com

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.