



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
901069
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0089849	---	---
Sample Date		Client Info		08 Apr 2024	---	---
Machine Age	hrs	Client Info		12061	---	---
Oil Age	hrs	Client Info		514	---	---
Filter Age	hrs	Client Info		514	---	---
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	18	---	---
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	7	---	---
Lead	ppm	ASTM D5185(m)	>40	2	---	---
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

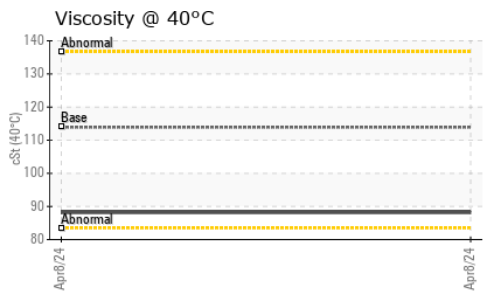
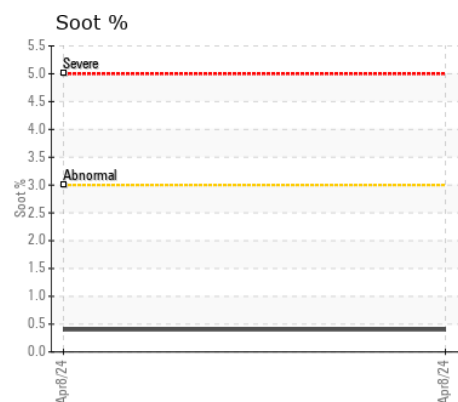
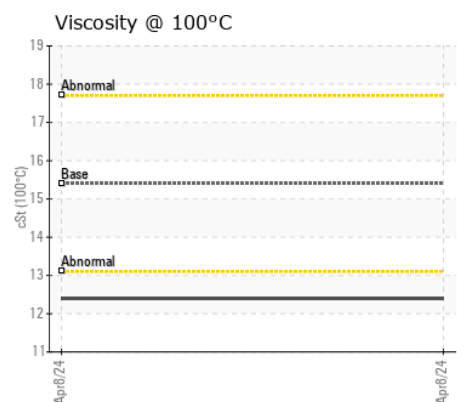
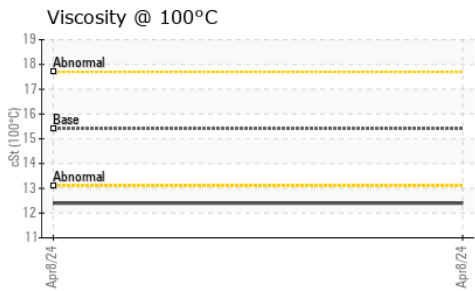
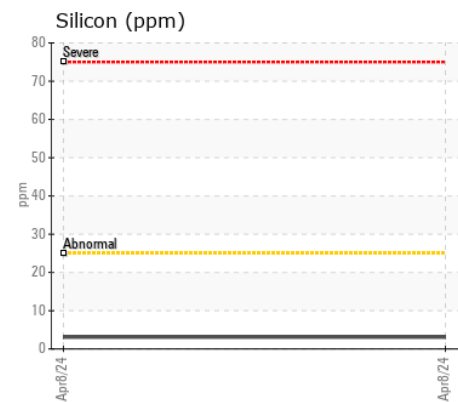
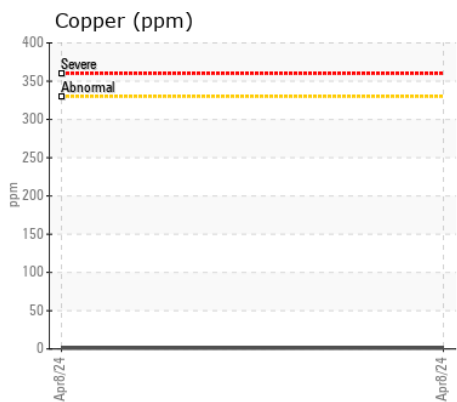
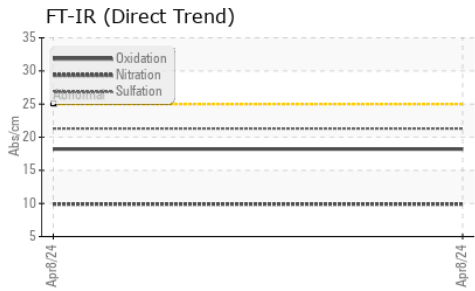
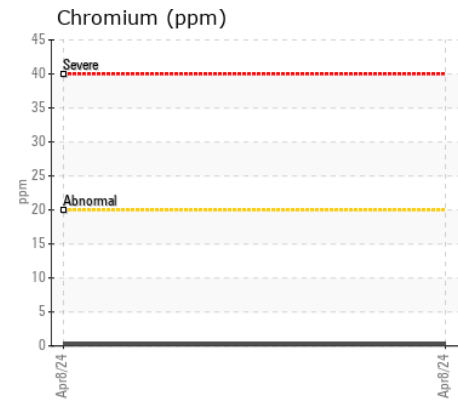
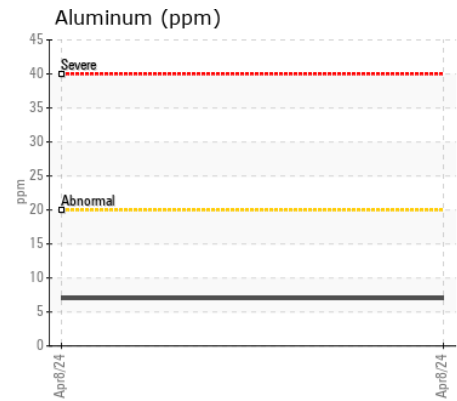
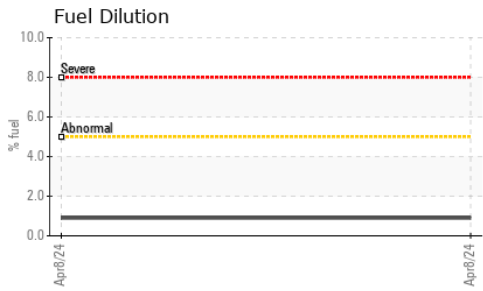
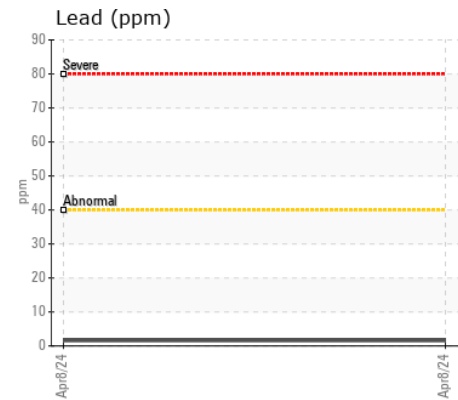
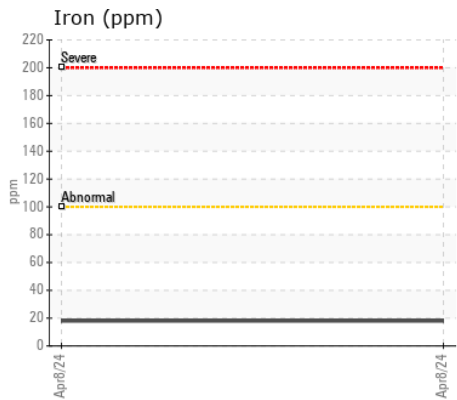
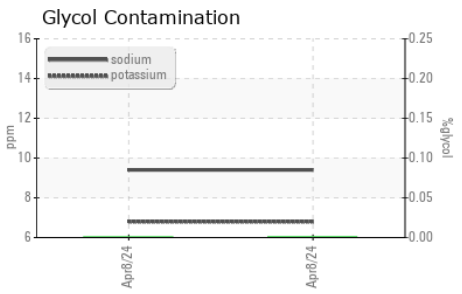
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	---	---
Potassium	ppm	ASTM D5185(m)	>20	7	---	---
Fuel	%	ASTM D7593*	>5	0.9	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol	%	ASTM D7922*		0.0	---	---
Soot %	%	ASTM D7844*	>3	0.4	---	---
Nitration	Abs/cm	ASTM D7624*	>20	9.9	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.3	---	---
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)		9	---	---
Boron	ppm	ASTM D5185(m)	0	2	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	60	53	---	---
Manganese	ppm	ASTM D5185(m)	0	<1	---	---
Magnesium	ppm	ASTM D5185(m)	1010	875	---	---
Calcium	ppm	ASTM D5185(m)	1070	967	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	911	---	---
Zinc	ppm	ASTM D5185(m)	1270	1119	---	---
Sulfur	ppm	ASTM D5185(m)	2060	2259	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.2	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	113.9	88.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.4	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	142	136	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental DO NOT USE_USE GFL582**
Sample No. : GFL0089849 **Received** : 02 Jul 2024 4624 Cumberland Road
Lab Number : 02644788 **Tested** : 04 Jul 2024 Cumberland, BC
Unique Number : 5802327 **Diagnosed** : 04 Jul 2024 - Wes Davis CA V0R 1S0
Test Package : MOB 1 (Additional Tests: FUELDILUTION, Glycol, KV40, PercentFuel, VI, Viscosity) **Contact:** Kyle Fallowfield
 To discuss this sample report, contact Customer Service at 1-800-268-2131. kfallowfield@gflenv.com
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T:
 Validity of results and interpretation are based on the sample and information as supplied. F: