



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
912020
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (9 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0115037	GFL0052151	---
Sample Date		Client Info		24 Apr 2024	19 May 2022	---
Machine Age	hrs	Client Info		5303	1181	---
Oil Age	hrs	Client Info		600	1181	---
Filter Age	hrs	Client Info		600	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	18	81	---
Chromium	ppm	ASTM D5185m	>20	<1	2	---
Nickel	ppm	ASTM D5185m	>5	2	▲ 16	---
Titanium	ppm	ASTM D5185m	>2	0	<1	---
Silver	ppm	ASTM D5185m	>2	<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	3	6	---
Lead	ppm	ASTM D5185m	>40	<1	1	---
Copper	ppm	ASTM D5185m	>330	7	80	---
Tin	ppm	ASTM D5185m	>15	1	6	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

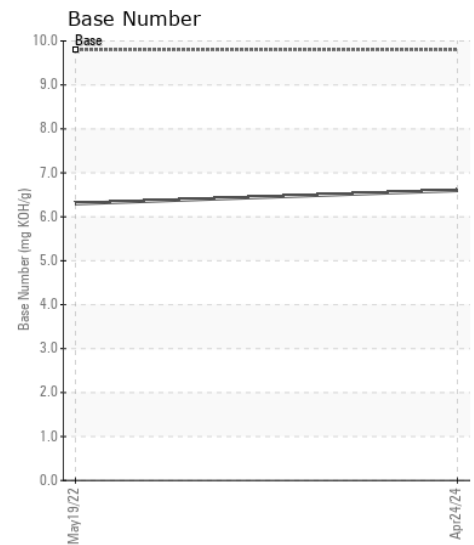
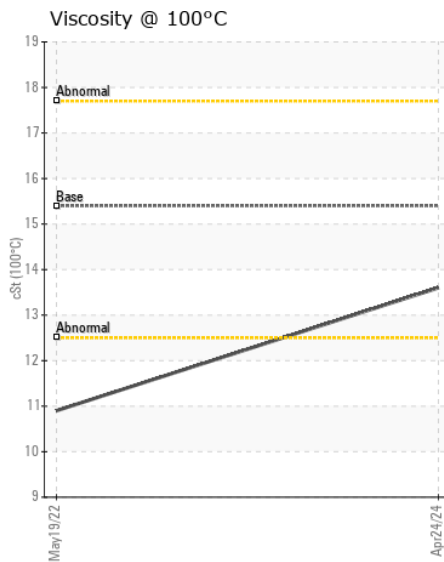
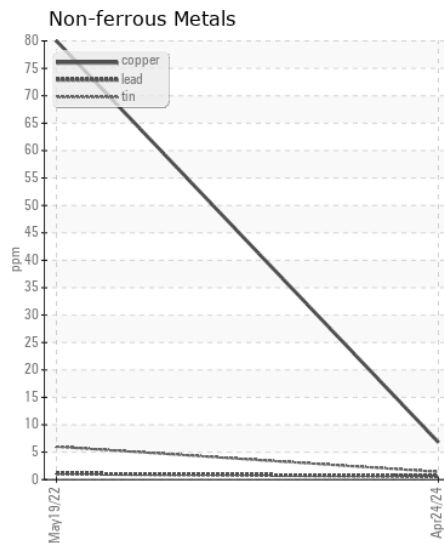
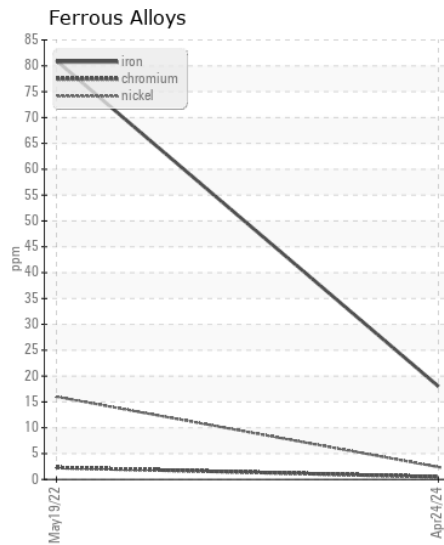
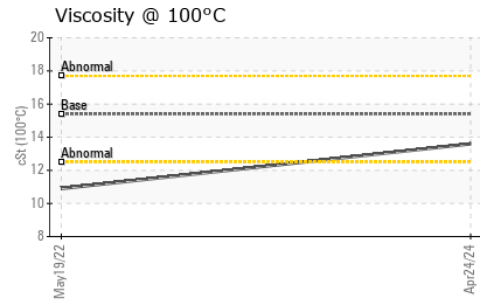
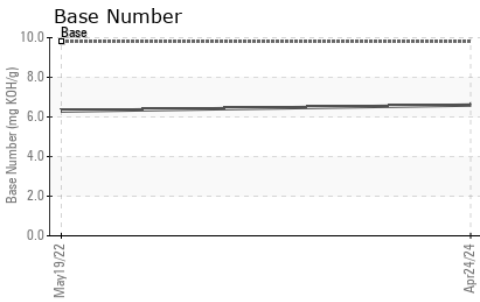
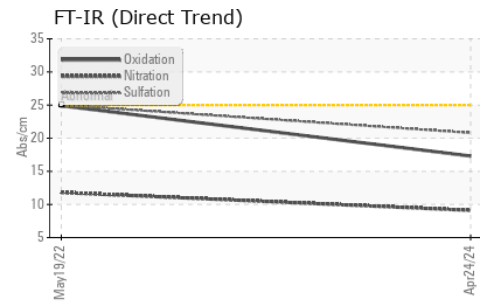
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	4	▲ 44	---
Potassium	ppm	ASTM D5185m	>20	2	8	---
Fuel		WC Method	>3.0	<1.0	0.1	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>4	0.7	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	9.1	11.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	25.0	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		4	3	---
Boron	ppm	ASTM D5185m	0	2	85	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	60	61	104	---
Manganese	ppm	ASTM D5185m	0	<1	4	---
Magnesium	ppm	ASTM D5185m	1010	971	768	---
Calcium	ppm	ASTM D5185m	1070	1095	1440	---
Phosphorus	ppm	ASTM D5185m	1150	1013	777	---
Zinc	ppm	ASTM D5185m	1270	1258	1011	---
Sulfur	ppm	ASTM D5185m	2060	2874	1915	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	24.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.6	6.3	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.6	● 10.9	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0115037
Lab Number : 06193397
Unique Number : 11050149
Test Package : FLEET

Received : 28 May 2024
Tested : 30 May 2024
Diagnosed : 30 May 2024 - Wes Davis

GFL Environmental - 405 - Arbor Hills
 7811 Chubb Rd
 NORTHVILLE, MI
 US 48168

Contact: Anthony Hopkins
 ahopkins@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:
F: