



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(TB7651)
Machine Id
413159
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0069965	GFL0069981	---
Sample Date		Client Info		10 May 2024	30 Nov 2023	---
Machine Age	hrs	Client Info		1759	702	---
Oil Age	hrs	Client Info		600	702	---
Filter Age	hrs	Client Info		600	702	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	24	55	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>15	2	8	---
Titanium	ppm	ASTM D5185m	>2	0	0	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>20	3	9	---
Lead	ppm	ASTM D5185m	>40	0	3	---
Copper	ppm	ASTM D5185m	>330	103	218	---
Tin	ppm	ASTM D5185m	>15	1	4	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

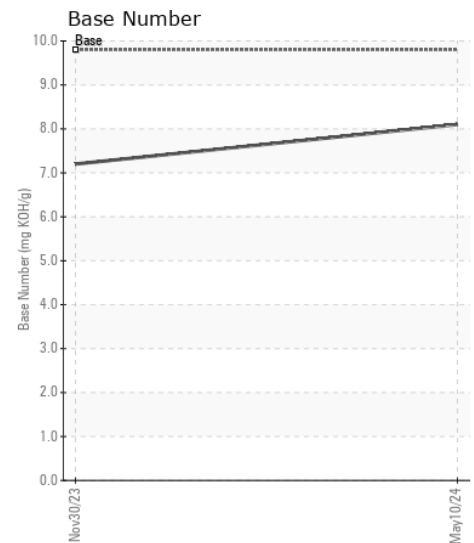
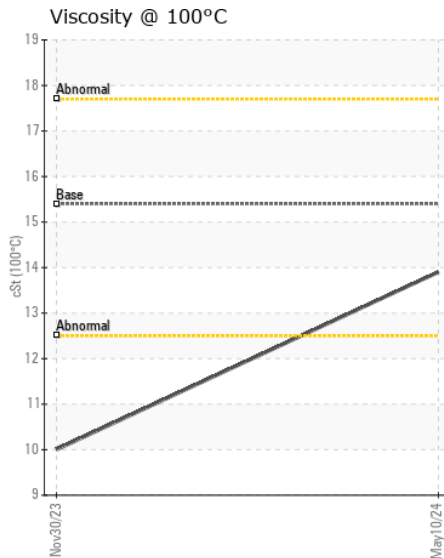
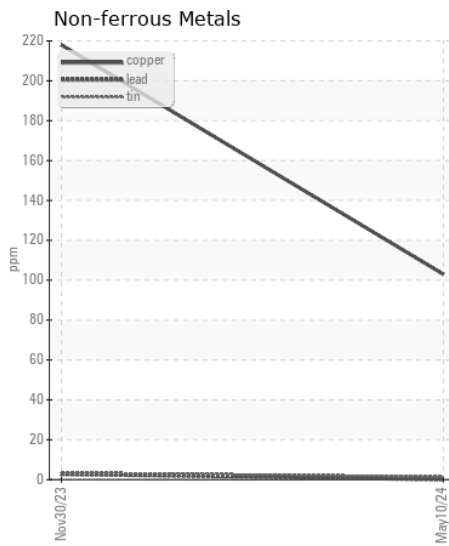
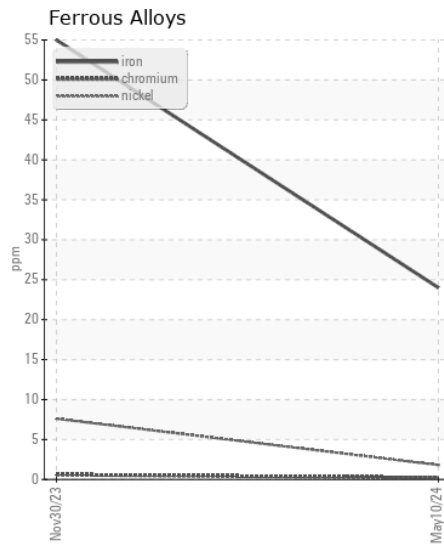
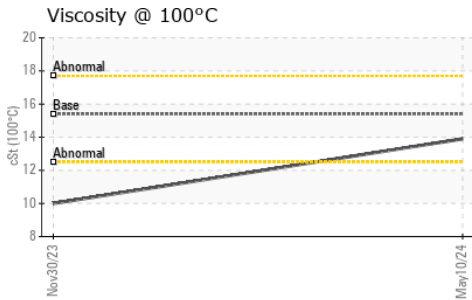
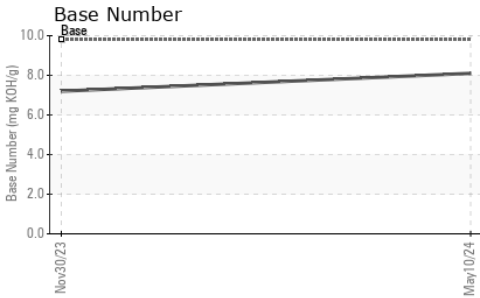
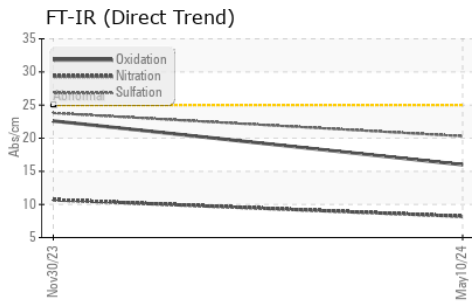
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	62	---
Potassium	ppm	ASTM D5185m	>20	4	24	---
Fuel		WC Method	>3.0	<1.0	0.2	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>4	0.6	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	8.2	10.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	23.8	---
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		<1	4	---
Boron	ppm	ASTM D5185m	0	4	173	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	60	66	105	---
Manganese	ppm	ASTM D5185m	0	<1	4	---
Magnesium	ppm	ASTM D5185m	1010	1047	699	---
Calcium	ppm	ASTM D5185m	1070	1139	1175	---
Phosphorus	ppm	ASTM D5185m	1150	1070	687	---
Zinc	ppm	ASTM D5185m	1270	1358	778	---
Sulfur	ppm	ASTM D5185m	2060	3107	2288	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	22.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.1	7.2	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	▲ 10.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0069965
Lab Number : 06188951
Unique Number : 11045703
Test Package : FLEET

Received : 23 May 2024
Tested : 24 May 2024
Diagnosed : 24 May 2024 - Wes Davis

GFL Environmental - 902 - Chilton HC
 428 High St
 Chilton, WI
 US 53014

Contact: Keith Mueller
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T: (920)374-1404

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)

F: