



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(42989HA)
Machine Id
727018
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		GFL0104086	GFL0053271	---
Sample Date		Client Info		26 Feb 2024	27 Jul 2022	---
Machine Age	hrs	Client Info		13342	12200	---
Oil Age	hrs	Client Info		600	600	---
Filter Age	hrs	Client Info		600	600	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	16	<1	---
Chromium	ppm	ASTM D5185m	>20	1	0	---
Nickel	ppm	ASTM D5185m	>5	1	0	---
Titanium	ppm	ASTM D5185m	>2	<1	1	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>20	5	4	---
Lead	ppm	ASTM D5185m	>40	<1	<1	---
Copper	ppm	ASTM D5185m	>330	3	6	---
Tin	ppm	ASTM D5185m	>15	1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

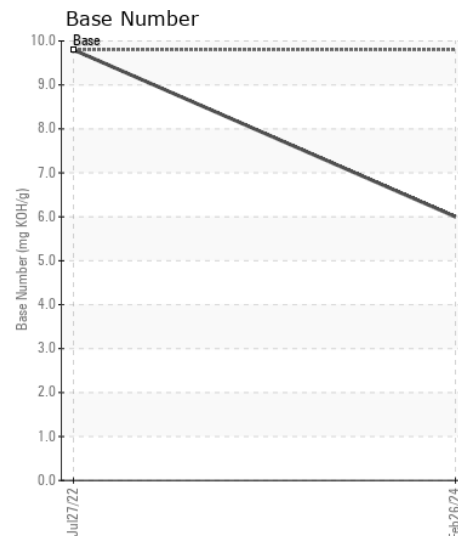
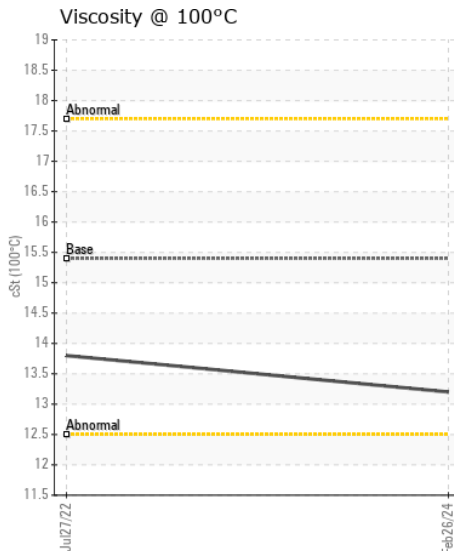
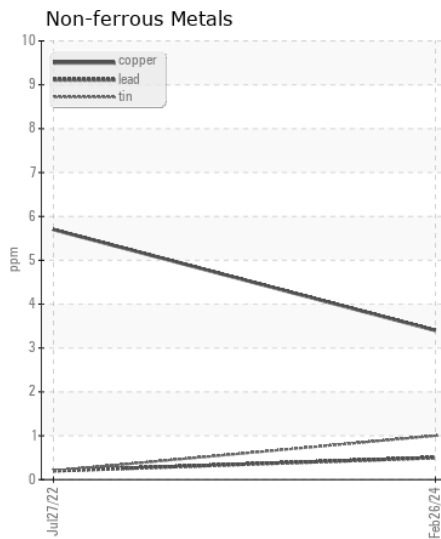
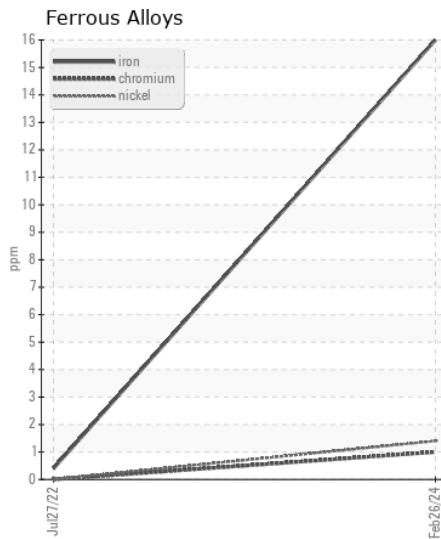
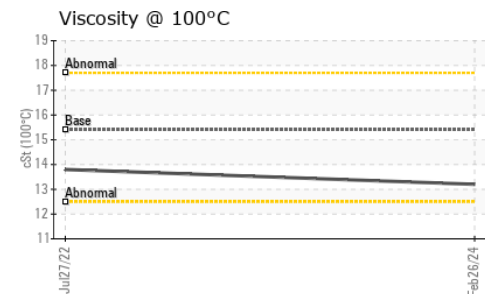
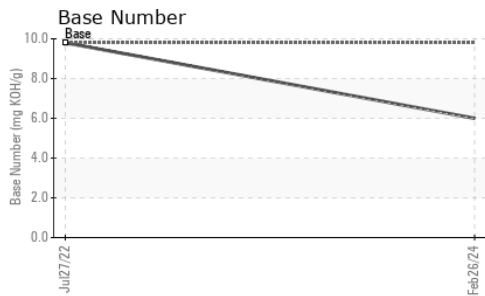
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	2	---
Potassium	ppm	ASTM D5185m	>20	3	2	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>4	0.8	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	9.5	6.8	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	18.4	---
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		3	2	---
Boron	ppm	ASTM D5185m	0	3	8	---
Barium	ppm	ASTM D5185m	0	1	0	---
Molybdenum	ppm	ASTM D5185m	60	55	56	---
Manganese	ppm	ASTM D5185m	0	<1	<1	---
Magnesium	ppm	ASTM D5185m	1010	792	864	---
Calcium	ppm	ASTM D5185m	1070	948	1060	---
Phosphorus	ppm	ASTM D5185m	1150	870	1018	---
Zinc	ppm	ASTM D5185m	1270	1117	1218	---
Sulfur	ppm	ASTM D5185m	2060	2968	3441	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	14.0	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.0	9.8	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : GFL0104086

Lab Number : 06101469

Unique Number : 10899699

Test Package : FLEET

Received : 27 Feb 2024

Tested : 28 Feb 2024

Diagnosed : 28 Feb 2024 - Wes Davis

GFL Environmental - 028 - Weldon

2211 US Highway 301

Halifax, NC

US 27839

Contact: TRAVIS PORCH

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T: (252)532-3344

F:

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)