



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
920057
 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		GFL0107483	GFL0055991	---
Sample Date		Client Info		31 Jan 2024	14 Jul 2022	---
Machine Age	hrs	Client Info		7024	0	---
Oil Age	hrs	Client Info		557	3875	---
Filter Age	hrs	Client Info		557	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	23	74	---
Chromium	ppm	ASTM D5185m	>4	<1	2	---
Nickel	ppm	ASTM D5185m	>2	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>2	0	<1	---
Aluminum	ppm	ASTM D5185m	>25	1	4	---
Lead	ppm	ASTM D5185m	>45	<1	▲ 60	---
Copper	ppm	ASTM D5185m	>85	0	5	---
Tin	ppm	ASTM D5185m	>4	<1	3	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

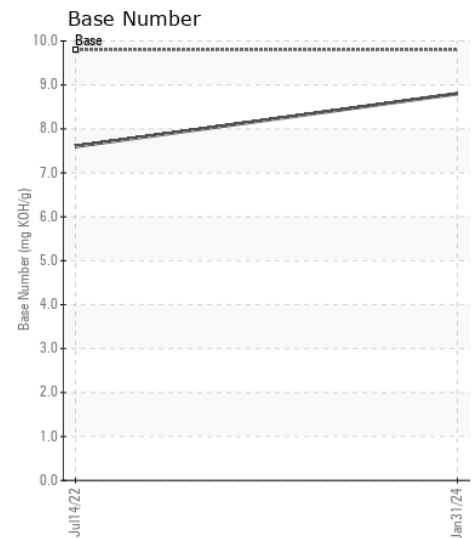
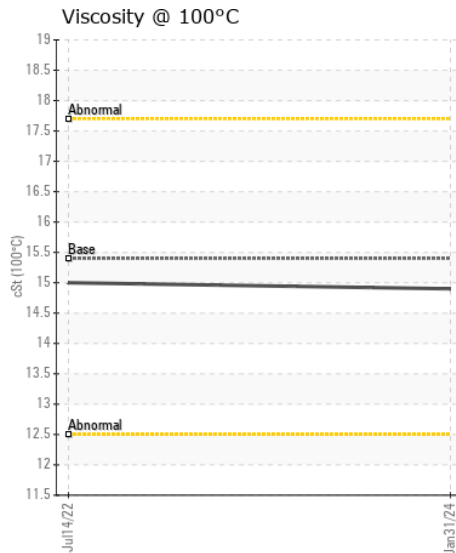
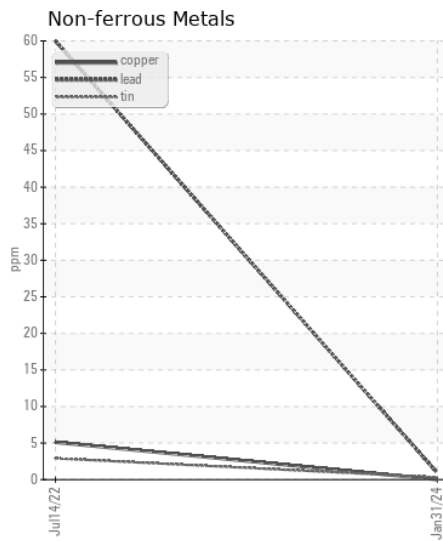
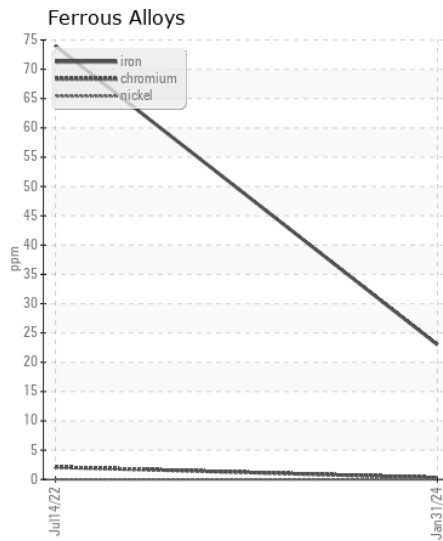
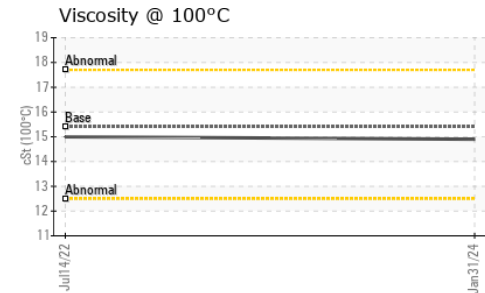
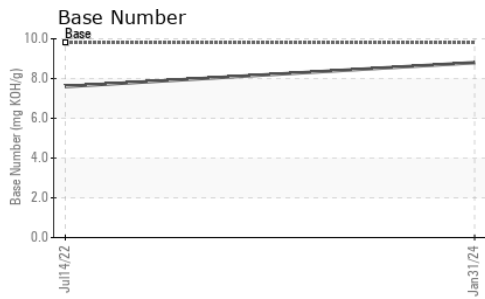
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	4	9	---
Potassium	ppm	ASTM D5185m	>20	0	4	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	2	---
Nitration	Abs/cm	*ASTM D7624	>20	7.1	13.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.2	31.3	---
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		2	4	---
Boron	ppm	ASTM D5185m	0	22	155	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	60	63	128	---
Manganese	ppm	ASTM D5185m	0	<1	2	---
Magnesium	ppm	ASTM D5185m	1010	930	637	---
Calcium	ppm	ASTM D5185m	1070	1039	1685	---
Phosphorus	ppm	ASTM D5185m	1150	1030	755	---
Zinc	ppm	ASTM D5185m	1270	1195	955	---
Sulfur	ppm	ASTM D5185m	2060	3012	2868	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	26.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.8	7.6	---
Visc @ 100°C	cSt	ASTM D445	15.4	14.9	15.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0107483
Lab Number : 06082955
Unique Number : 10870400
Test Package : FLEET

Received : 07 Feb 2024
Tested : 08 Feb 2024
Diagnosed : 08 Feb 2024 - Wes Davis

GFL Environmental - 921 - Janesville HC
 304 West Sunny Lane
 Janesville, WI
 US 53546

Contact: Edgar Gomez
 edgar.gomez@gflenv.com

T: (224)413-0168

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)

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