



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
914044
 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		GFL0110191	GFL0110174	---
Sample Date		Client Info		07 Feb 2024	22 Jan 2024	---
Machine Age	hrs	Client Info		713	560	---
Oil Age	hrs	Client Info		200	560	---
Filter Age	hrs	Client Info		200	560	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>110	5	36	---
Chromium	ppm	ASTM D5185m	>4	0	1	---
Nickel	ppm	ASTM D5185m	>2	1	7	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>2	<1	<1	---
Aluminum	ppm	ASTM D5185m	>25	2	5	---
Lead	ppm	ASTM D5185m	>45	0	1	---
Copper	ppm	ASTM D5185m	>85	17	▲ 131	---
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

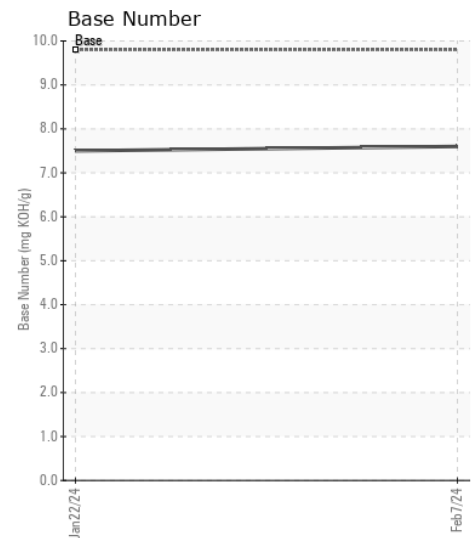
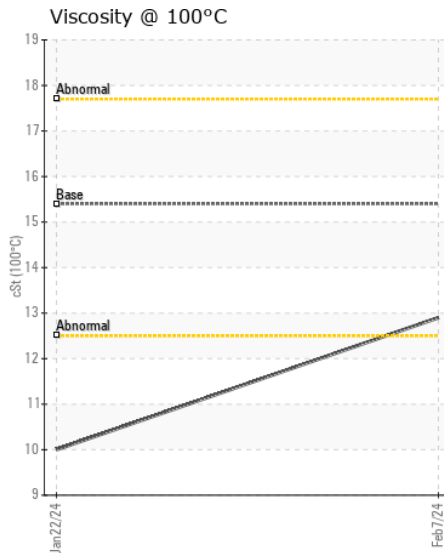
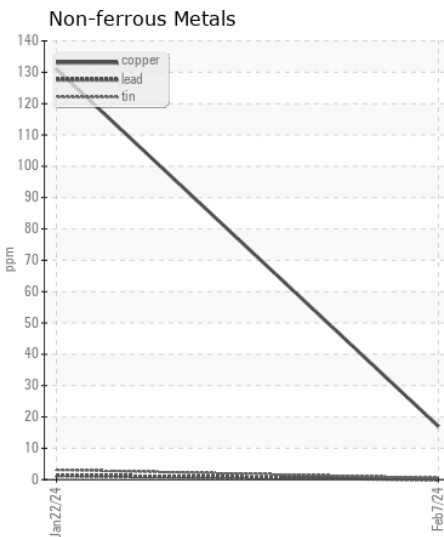
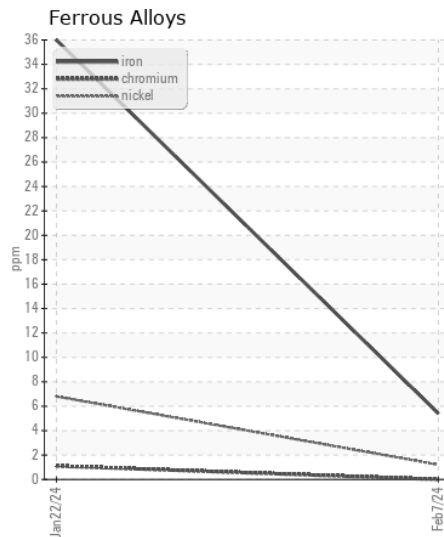
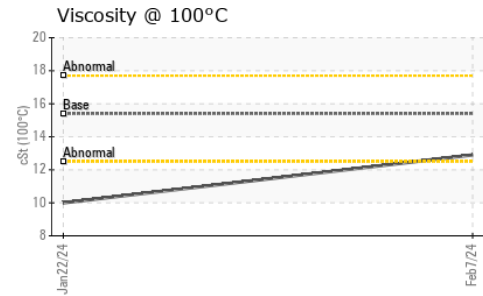
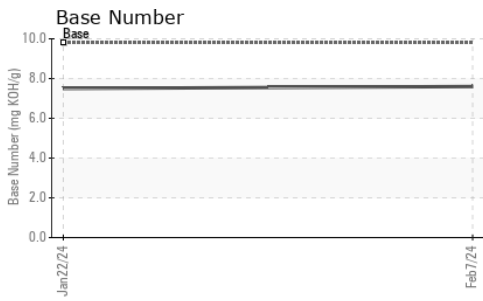
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	13	▲ 78	---
Potassium	ppm	ASTM D5185m	>20	<1	6	---
Fuel		WC Method	>5	<1.0	0.4	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.2	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	5.7	9.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	24.4	---
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		<1	4	---
Boron	ppm	ASTM D5185m	0	23	190	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	60	59	103	---
Manganese	ppm	ASTM D5185m	0	<1	4	---
Magnesium	ppm	ASTM D5185m	1010	834	665	---
Calcium	ppm	ASTM D5185m	1070	1019	1342	---
Phosphorus	ppm	ASTM D5185m	1150	1009	674	---
Zinc	ppm	ASTM D5185m	1270	1190	767	---
Sulfur	ppm	ASTM D5185m	2060	3078	2124	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	21.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.6	7.5	---
Visc @ 100°C	cSt	ASTM D445	15.4	12.9	▲ 10.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0110191
Lab Number : 06088078
Unique Number : 10875523
Test Package : FLEET

Received : 13 Feb 2024
Tested : 14 Feb 2024
Diagnosed : 14 Feb 2024 - Wes Davis

GFL Environmental - 660 - Lynchburg Hauling
 2410 Mayflower Drive
 Lynchburg, VA
 US 24501

Contact: Delbert Beasley
 dbeasley@countyrecycling.net

T: (434)665-5998

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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