



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
914049
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		GFL0084802	GFL0084769	---
Sample Date		Client Info		08 Feb 2024	27 Dec 2023	---
Machine Age	hrs	Client Info		967	630	---
Oil Age	hrs	Client Info		630	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>120	14	43	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	1	4	---
Titanium	ppm	ASTM D5185m	>2	0	<1	---
Silver	ppm	ASTM D5185m	>2	0	1	---
Aluminum	ppm	ASTM D5185m	>20	1	▲ 6	---
Lead	ppm	ASTM D5185m	>40	0	<1	---
Copper	ppm	ASTM D5185m	>330	25	171	---
Tin	ppm	ASTM D5185m	>15	0	3	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

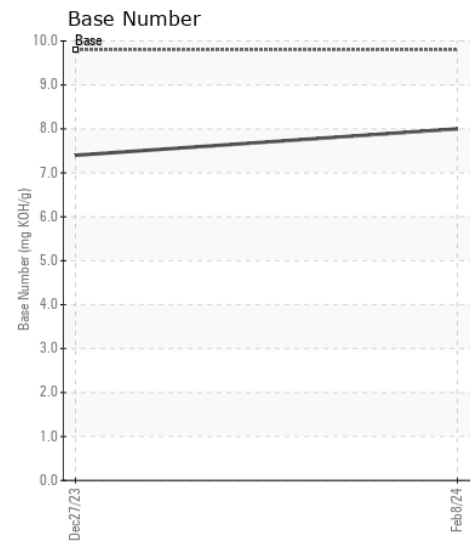
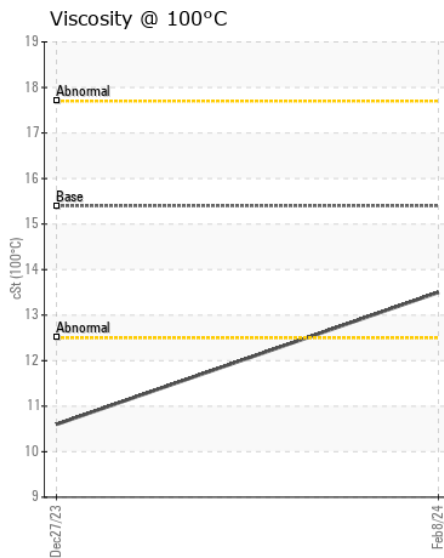
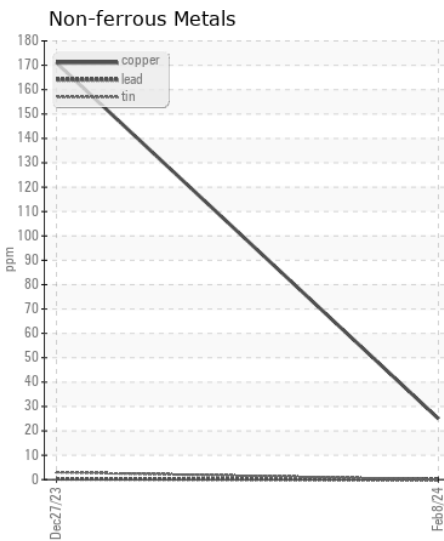
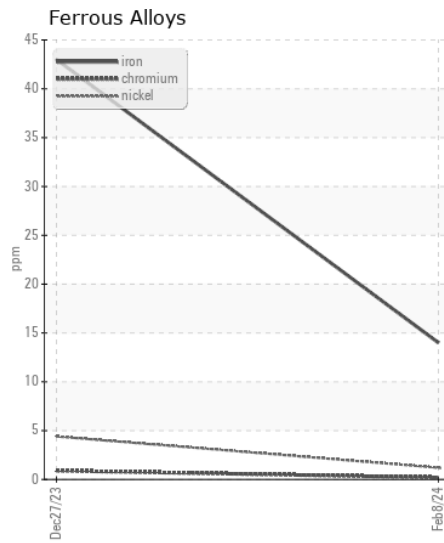
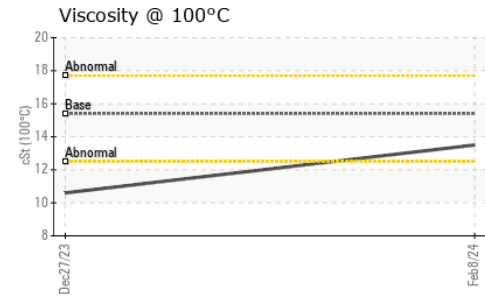
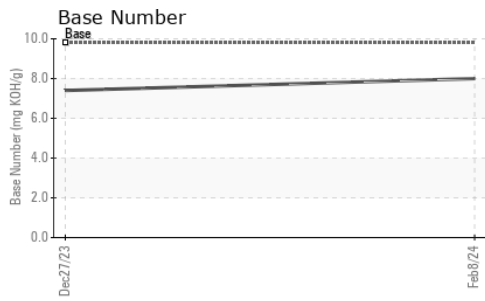
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	▲ 50	---
Potassium	ppm	ASTM D5185m	>20	5	12	---
Fuel		WC Method	>3.0	<1.0	0.5	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>4	0.2	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	7.5	10.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	23.7	---
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		0	4	---
Boron	ppm	ASTM D5185m	0	15	159	---
Barium	ppm	ASTM D5185m	0	8	0	---
Molybdenum	ppm	ASTM D5185m	60	65	108	---
Manganese	ppm	ASTM D5185m	0	0	4	---
Magnesium	ppm	ASTM D5185m	1010	880	723	---
Calcium	ppm	ASTM D5185m	1070	989	1301	---
Phosphorus	ppm	ASTM D5185m	1150	844	737	---
Zinc	ppm	ASTM D5185m	1270	1127	872	---
Sulfur	ppm	ASTM D5185m	2060	2672	2261	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	21.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	7.4	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	▲ 10.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0084802
Lab Number : 06088492
Unique Number : 10875937
Test Package : FLEET

Received : 14 Feb 2024
Tested : 15 Feb 2024
Diagnosed : 15 Feb 2024 - Wes Davis

GFL Environmental - 959A - Urbana HC
 4808 cunningham Rd
 Urbana, IL
 US 61802
 Contact: Kristine Tryon
 Ktryon@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: