



Machine Id
726053
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0070003	GFL0093844	---
Sample Date		Client Info		23 Jan 2024	18 Dec 2023	---
Machine Age	hrs	Client Info		14157	0	---
Oil Age	hrs	Client Info		600	0	---
Filter Age	hrs	Client Info		600	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ATTENTION	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	14	48	---
Chromium	ppm	ASTM D5185m	>5	<1	2	---
Nickel	ppm	ASTM D5185m	>2	0	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>30	2	7	---
Lead	ppm	ASTM D5185m	>30	0	3	---
Copper	ppm	ASTM D5185m	>150	<1	2	---
Tin	ppm	ASTM D5185m	>5	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

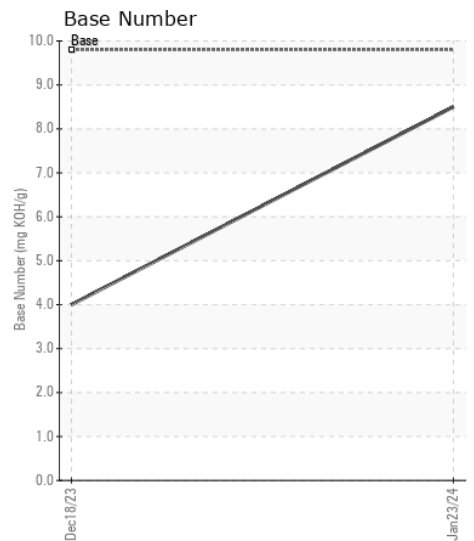
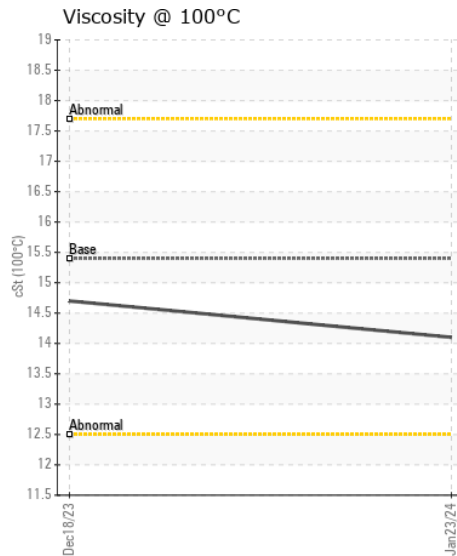
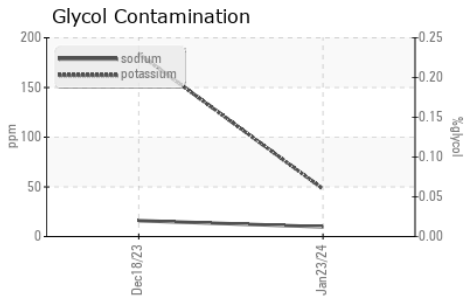
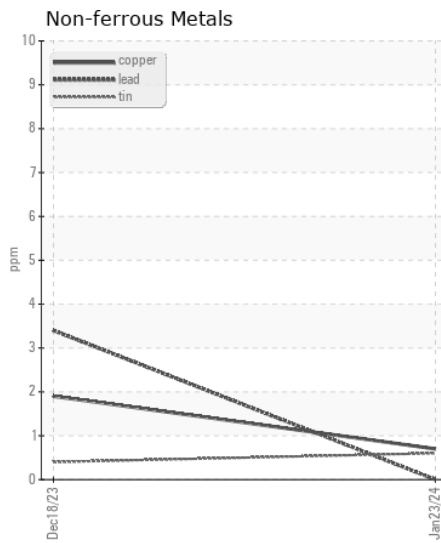
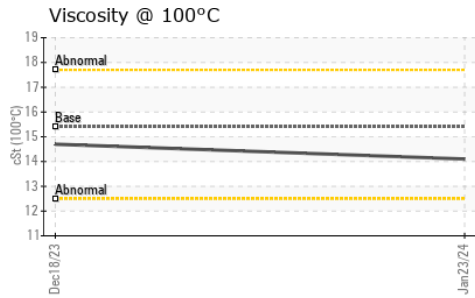
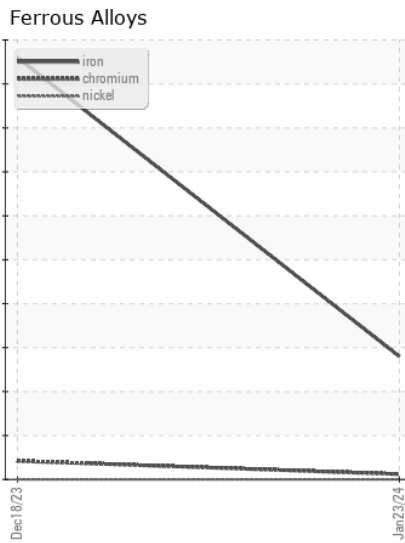
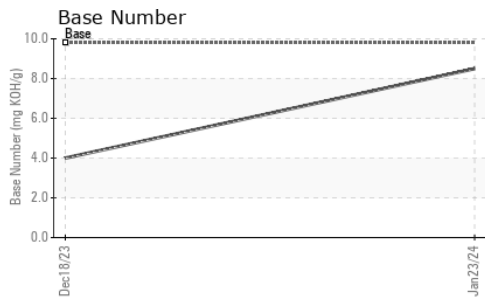
Sodium and/or potassium levels remain elevated. Test for glycol is negative.

Silicon	ppm	ASTM D5185m	>20	4	11	---
Potassium	ppm	ASTM D5185m	>20	▲ 48	▲ 184	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol	%	*ASTM D2982		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.5	1.3	---
Nitration	Abs/cm	*ASTM D7624	>20	8.1	14.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	28.4	---
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		10	16	---
Boron	ppm	ASTM D5185m	0	<1	2	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	60	57	63	---
Manganese	ppm	ASTM D5185m	0	<1	<1	---
Magnesium	ppm	ASTM D5185m	1010	921	1015	---
Calcium	ppm	ASTM D5185m	1070	988	1128	---
Phosphorus	ppm	ASTM D5185m	1150	977	1019	---
Zinc	ppm	ASTM D5185m	1270	1170	1349	---
Sulfur	ppm	ASTM D5185m	2060	2840	2745	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	28.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.5	4.0	---
Visc @ 100°C	cSt	ASTM D445	15.4	14.1	14.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0070003
Lab Number : 06083267
Unique Number : 10870712
Test Package : FLEET (Additional Tests: Glycol)

GFL Environmental - 952 - New London
 E8257 WIS-54
 NEW LONDON, WI
 US 54961
 Contact: MATTHEW TAYLOR

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: (414)852-4404

F: