



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**827042**  
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		<b>GFL0093830</b>	GFL0069978	---
Sample Date		Client Info		<b>24 Jan 2024</b>	07 Sep 2023	---
Machine Age	hrs	Client Info		<b>1517</b>	248380	---
Oil Age	hrs	Client Info		<b>600</b>	0	---
Filter Age	hrs	Client Info		<b>600</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	<b>17</b>	32	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m	>40	<b>1</b>	3	---
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	2	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

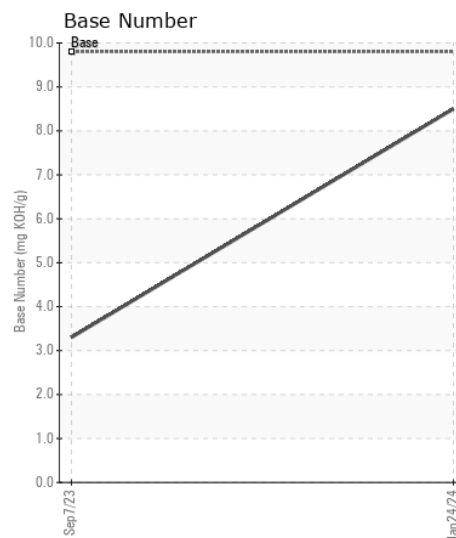
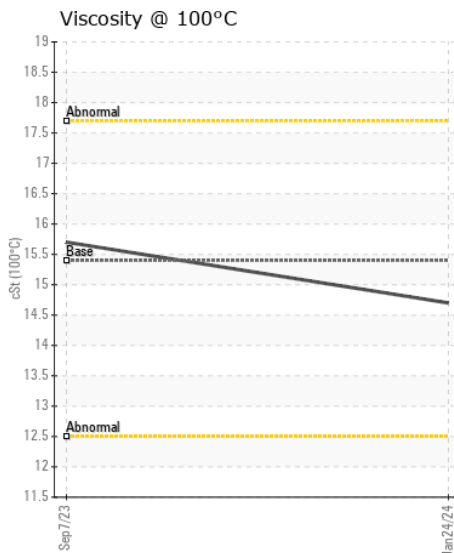
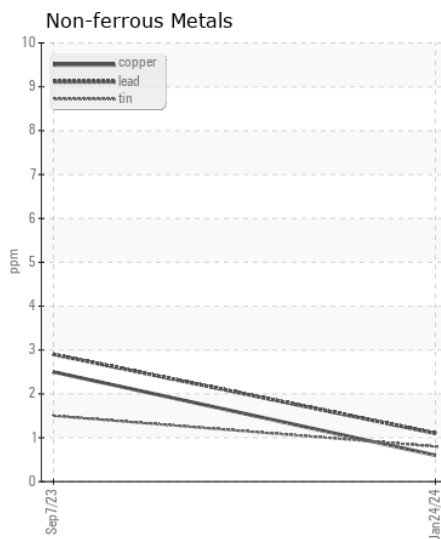
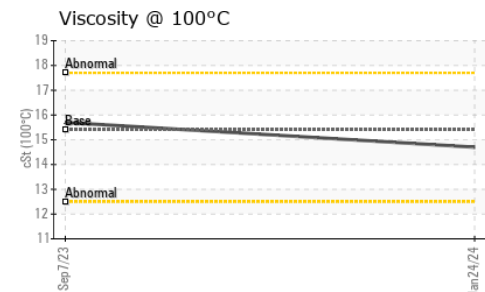
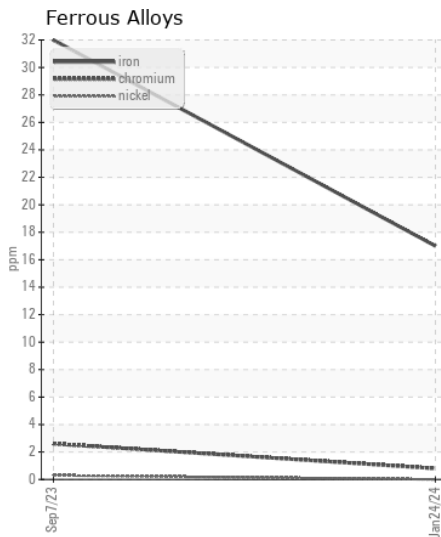
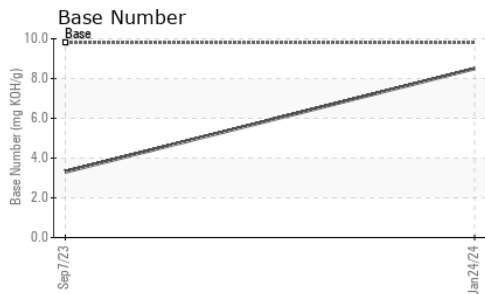
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>3</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>4	<b>2.8</b>	▲ 4.3	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.6</b>	9.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.2</b>	24.8	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>3</b>	2	---
Boron	ppm	ASTM D5185m	0	<b>&lt;1</b>	3	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	44	---
Molybdenum	ppm	ASTM D5185m	60	<b>57</b>	55	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m	1010	<b>905</b>	857	---
Calcium	ppm	ASTM D5185m	1070	<b>968</b>	1009	---
Phosphorus	ppm	ASTM D5185m	1150	<b>957</b>	891	---
Zinc	ppm	ASTM D5185m	1270	<b>1148</b>	1119	---
Sulfur	ppm	ASTM D5185m	2060	<b>2811</b>	3021	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.5</b>	13.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.5</b>	3.3	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.7</b>	15.7	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0093830  
**Lab Number** : 06083268  
**Unique Number** : 10870713  
**Test Package** : FLEET

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

**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: