



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

Machine Id  
**211017**  
Component  
**Front Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0110179</b>	GFL0060489	---
Sample Date		Client Info		<b>08 Jan 2024</b>	16 Aug 2023	---
Machine Age	hrs	Client Info		<b>25348</b>	21759	---
Oil Age	hrs	Client Info		<b>600</b>	600	---
Filter Age	hrs	Client Info		<b>600</b>	600	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>62</b>	105	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	6	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	13	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>330	<b>2</b>	6	---
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

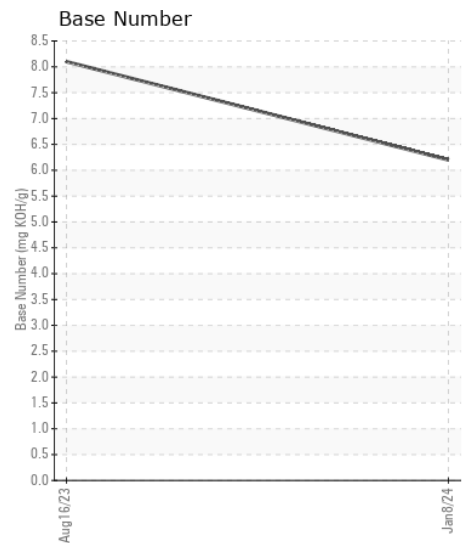
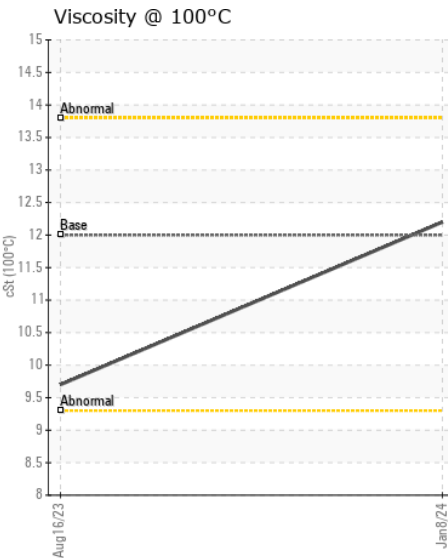
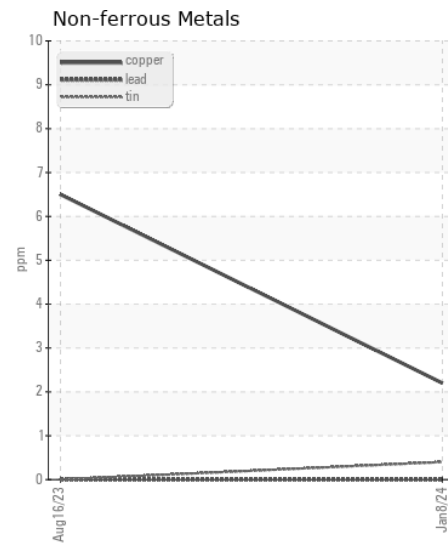
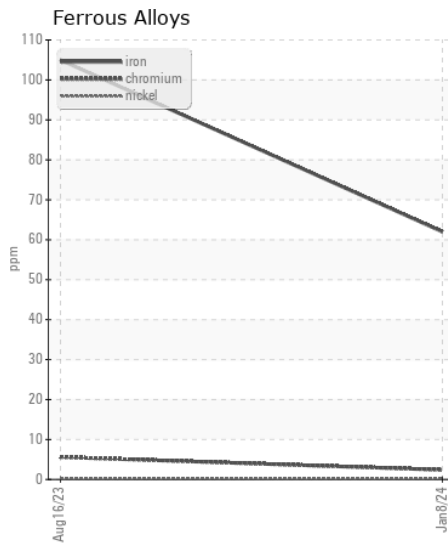
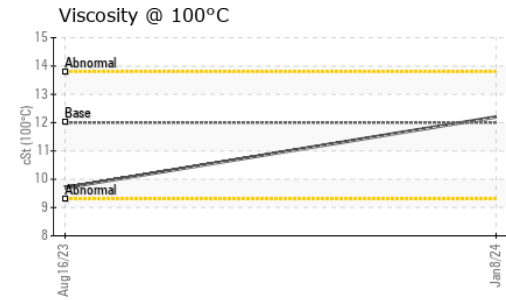
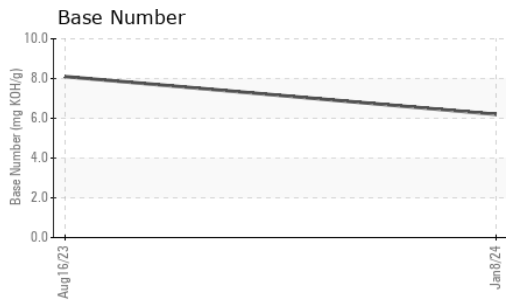
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	10	---
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	1	---
Fuel		WC Method	>5	<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	>3	<b>0.3</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.2</b>	9.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.9</b>	18.8	---
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>9</b>	2	---
Boron	ppm	ASTM D5185m	2	<b>111</b>	0	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	50	<b>9</b>	58	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m	950	<b>157</b>	954	---
Calcium	ppm	ASTM D5185m	1050	<b>1748</b>	1096	---
Phosphorus	ppm	ASTM D5185m	995	<b>924</b>	993	---
Zinc	ppm	ASTM D5185m	1180	<b>1040</b>	1221	---
Sulfur	ppm	ASTM D5185m	2600	<b>3309</b>	3478	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.3</b>	15.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.2</b>	8.1	---
Visc @ 100°C	cSt	ASTM D445	12.00	<b>12.2</b>	9.7	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0110179 **Received** : 11 Jan 2024  
**Lab Number** : 06058631 **Diagnosed** : 14 Jan 2024  
**Unique Number** : 10830013 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 660 - Lynchburg Hauling**  
 2410 Mayflower Drive  
 Lynchburg, VA  
 US 24501  
 Contact: Delbert Beasley  
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 F:

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)