



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

Machine Id  
**429052-402457**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0121367</b>	GFL0113743	GFL0113723
Sample Date		Client Info		<b>30 May 2024</b>	06 May 2024	28 Mar 2024
Machine Age	hrs	Client Info		<b>12732</b>	12537	12242
Oil Age	hrs	Client Info		<b>490</b>	295	1068
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>12</b>	12	35
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	4
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>4</b>	2	5
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	<1	3
Copper	ppm	ASTM D5185m	>85	<b>2</b>	0	2
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

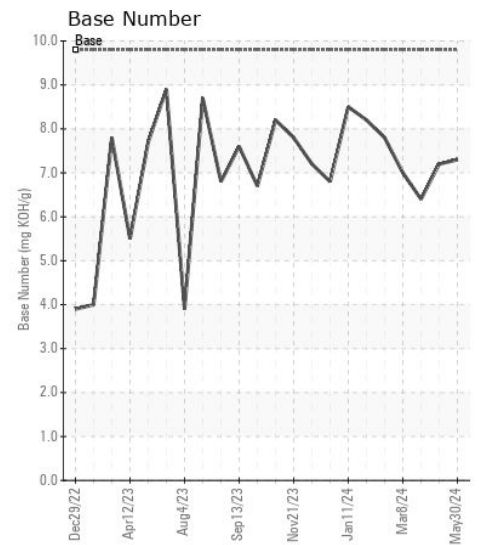
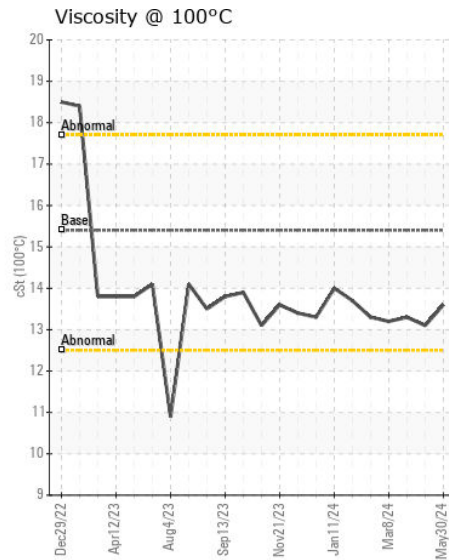
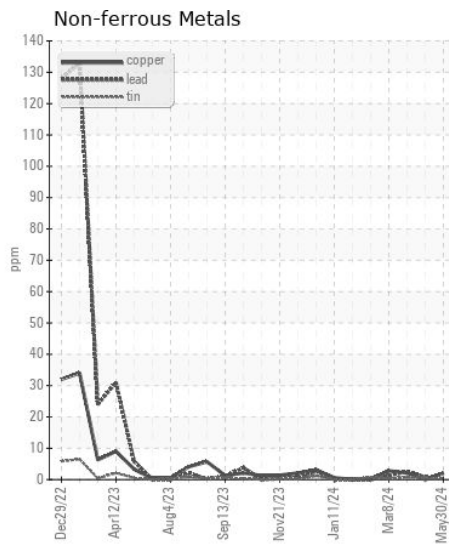
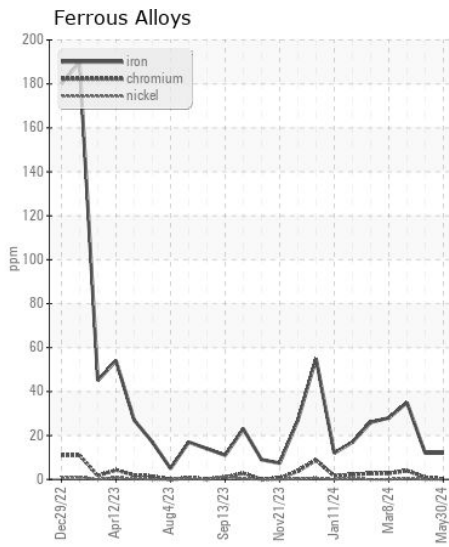
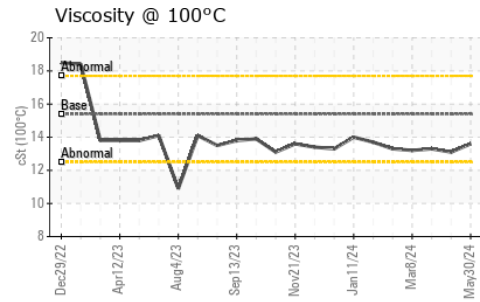
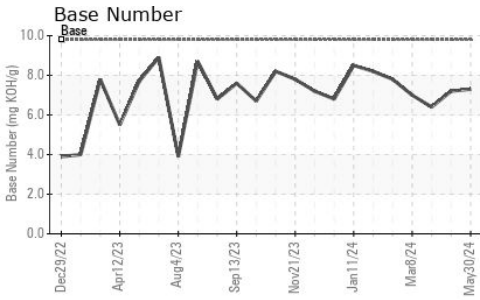
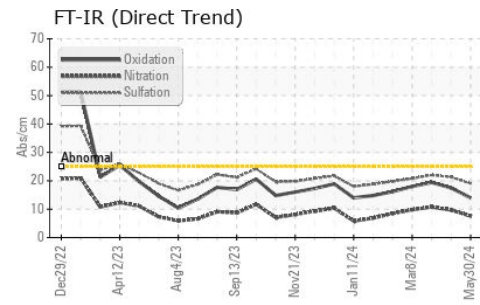
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>9</b>	6	16
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	4	12
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.6</b>	9.7	10.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.0</b>	21.3	22.0
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	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		<b>0</b>	4	4
Boron	ppm	ASTM D5185m	0	<b>15</b>	11	15
Barium	ppm	ASTM D5185m	0	<b>1</b>	2	0
Molybdenum	ppm	ASTM D5185m	60	<b>83</b>	72	100
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>766</b>	851	955
Calcium	ppm	ASTM D5185m	1070	<b>1216</b>	1112	1186
Phosphorus	ppm	ASTM D5185m	1150	<b>947</b>	1029	1017
Zinc	ppm	ASTM D5185m	1270	<b>1179</b>	1207	1279
Sulfur	ppm	ASTM D5185m	2060	<b>3009</b>	3232	2938
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.0</b>	17.5	19.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>7.3</b>	7.2	6.4
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.6</b>	13.1	13.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0121367  
**Lab Number** : 06197520  
**Unique Number** : 11059643  
**Test Package** : FLEET

**Received** : 03 Jun 2024  
**Tested** : 06 Jun 2024  
**Diagnosed** : 06 Jun 2024 - Wes Davis

**GFL environmental - 867 - Trafford (Blount Hauling)**  
 1130 County Line Rd  
 Trafford, AL  
 US 35172

Contact: Jonathan Williams  
 jonathan.williams@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)

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