



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



Machine Id  
**822006-191**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP E6 10W40 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0113659</b>	GFL0113653	GFL0103909
Sample Date		Client Info		<b>21 May 2024</b>	03 May 2024	02 Feb 2024
Machine Age	hrs	Client Info		<b>11611</b>	10805	10805
Oil Age	hrs	Client Info		<b>298</b>	10805	10805
Filter Age	hrs	Client Info		<b>298</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	<b>39</b>	31	15
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	0	2
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>30	<b>7</b>	6	5
Lead	ppm	ASTM D5185m	>30	<b>2</b>	2	1
Copper	ppm	ASTM D5185m	>150	<b>2</b>	1	2
Tin	ppm	ASTM D5185m	>5	<b>1</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

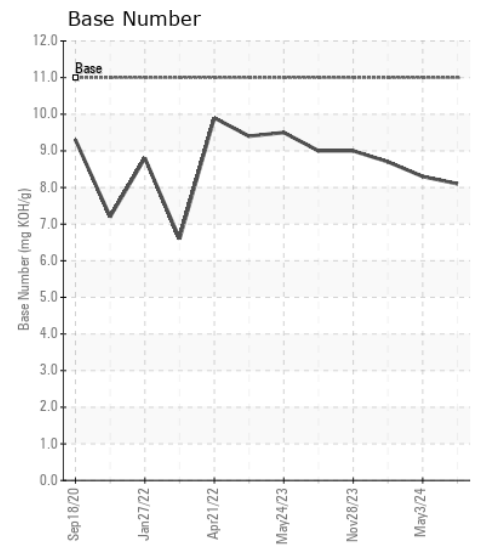
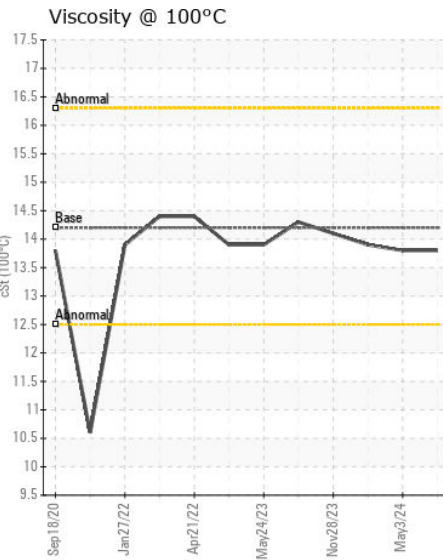
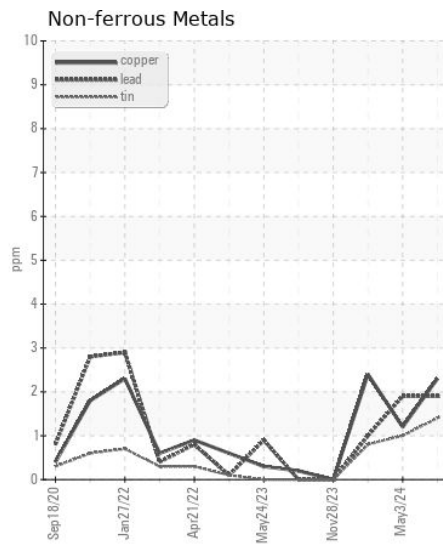
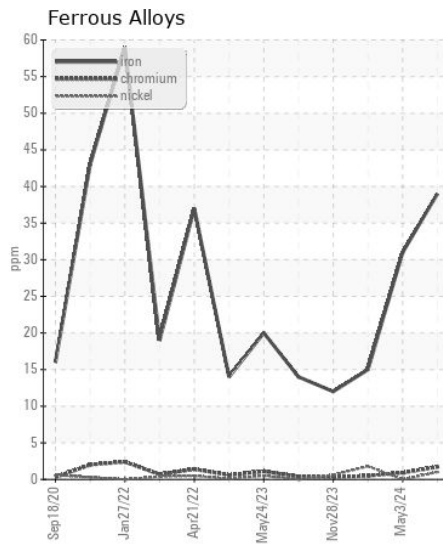
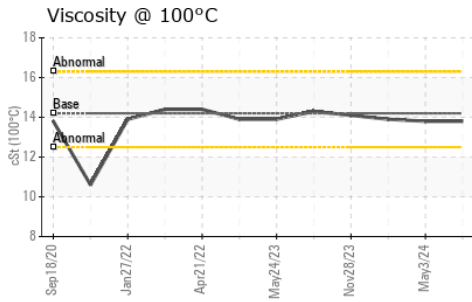
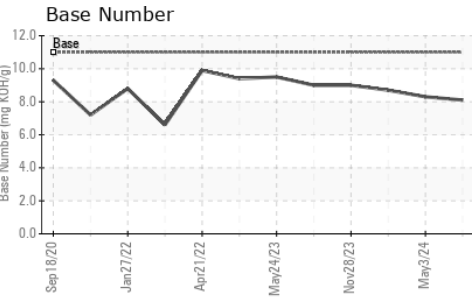
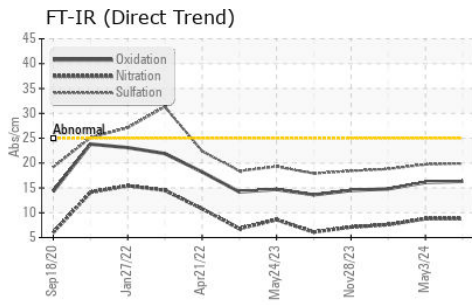
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>7</b>	6	3
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	5	8
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>0.5</b>	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.8</b>	8.8	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.9</b>	19.7	18.8
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>6</b>	5	5
Boron	ppm	ASTM D5185m	1	<b>3</b>	5	4
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	49	<b>67</b>	60	58
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	930	<b>1025</b>	950	886
Calcium	ppm	ASTM D5185m	1350	<b>1229</b>	1123	1027
Phosphorus	ppm	ASTM D5185m	810	<b>1073</b>	1077	1030
Zinc	ppm	ASTM D5185m	930	<b>1335</b>	1290	1238
Sulfur	ppm	ASTM D5185m	2500	<b>3286</b>	3566	3105
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.3</b>	16.1	14.8
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>8.1</b>	8.3	8.7
Visc @ 100°C	cSt	ASTM D445	14.2	<b>13.8</b>	13.8	13.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0113659  
**Lab Number** : 06189940  
**Unique Number** : 11046692  
**Test Package** : FLEET  
**Received** : 23 May 2024  
**Tested** : 25 May 2024  
**Diagnosed** : 29 May 2024 - Sean Felton

**GFL Environmental - 654S - Midlothian**  
 12230 Deergrove Road  
 Midlothian, VA  
 US 23112  
 Contact: Corbin Umphlet  
 cumphlet@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: