



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



Machine Id  
**933044**  
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>GFL0122142</b>	GFL0118083	GFL0118092
Sample Date		Client Info		<b>17 Jul 2024</b>	21 May 2024	17 May 2024
Machine Age	hrs	Client Info		<b>2686</b>	2270	2229
Oil Age	hrs	Client Info		<b>416</b>	480	439
Filter Age	hrs	Client Info		<b>416</b>	480	439
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>90	<b>15</b>	30	31
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	2
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	2	<1
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	11	9
Lead	ppm	ASTM D5185m	>40	<b>0</b>	3	3
Copper	ppm	ASTM D5185m	>330	<b>2</b>	3	2
Tin	ppm	ASTM D5185m	>15	<b>0</b>	2	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

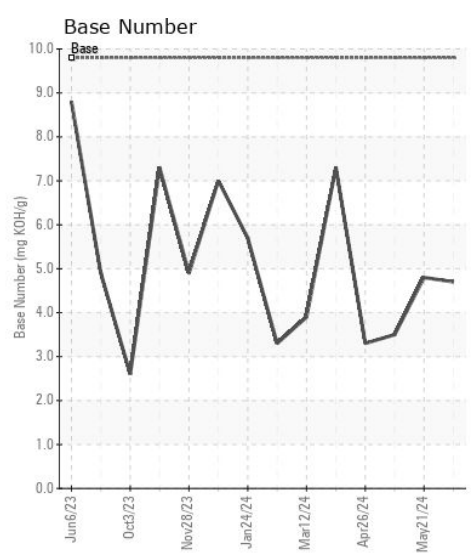
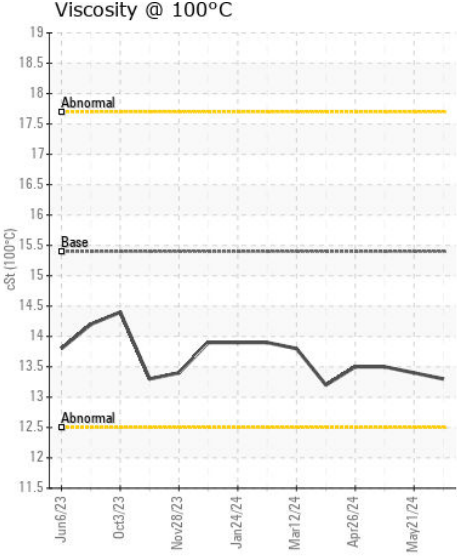
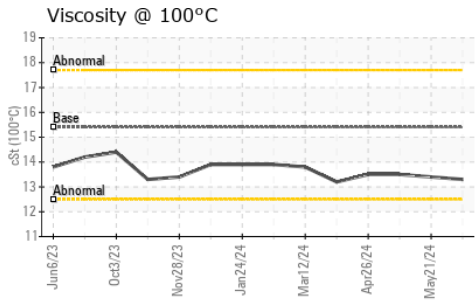
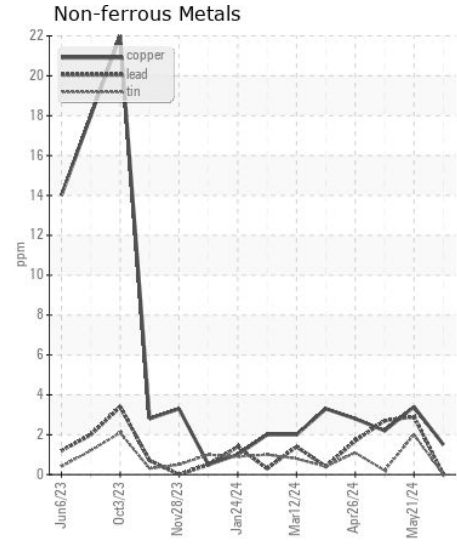
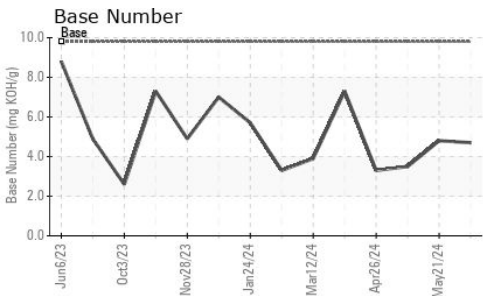
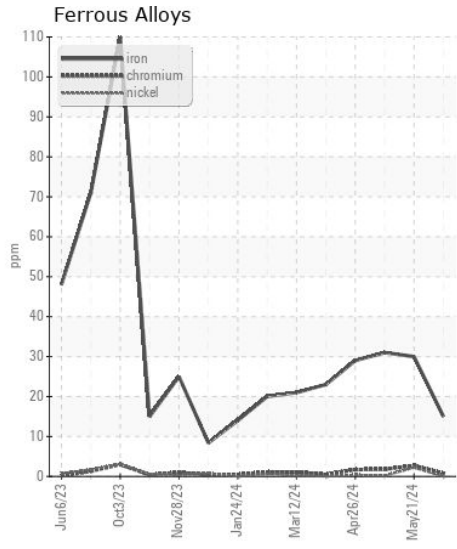
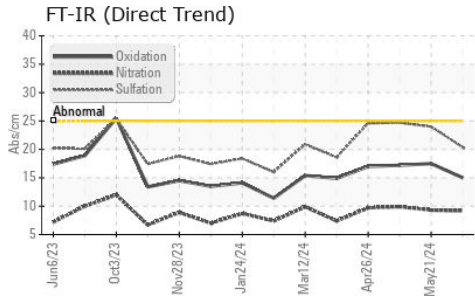
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	10	8
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	12	8
Fuel		WC Method	>3.0	<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	>6	<b>0</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.2</b>	9.3	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.4</b>	24.0	24.7
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>7</b>	8	6
Boron	ppm	ASTM D5185m	0	<b>1</b>	3	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>67</b>	74	73
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	2	<1
Magnesium	ppm	ASTM D5185m	1010	<b>944</b>	990	1076
Calcium	ppm	ASTM D5185m	1070	<b>1157</b>	1205	1270
Phosphorus	ppm	ASTM D5185m	1150	<b>985</b>	999	1081
Zinc	ppm	ASTM D5185m	1270	<b>1213</b>	1300	1411
Sulfur	ppm	ASTM D5185m	2060	<b>3051</b>	2941	3311
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.0</b>	17.5	17.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>4.7</b>	4.8	3.5
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.3</b>	13.4	13.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0122142  
**Lab Number** : 06241486  
**Unique Number** : 11130320  
**Test Package** : FLEET

**Received** : 19 Jul 2024  
**Tested** : 20 Jul 2024  
**Diagnosed** : 20 Jul 2024 - Wes Davis

**GFL Environmental - 010 - Stockbridge**  
 1280 Rum Creek Parkway  
 Stockbridge, GA  
 US 30281  
 Contact: TECHNICIAN ACCOUNT  
 wcgfldemo@gmail.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)