



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



Machine Id  
**727154**  
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>GFL0123774</b>	GFL0113013	GFL0108401
Sample Date		Client Info		<b>11 Jun 2024</b>	30 Apr 2024	29 Dec 2023
Machine Age	hrs	Client Info		<b>2225</b>	1995	1447
Oil Age	hrs	Client Info		<b>0</b>	1995	1447
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	<b>8</b>	19	5
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	1
Copper	ppm	ASTM D5185m	>330	<b>27</b>	50	7
Tin	ppm	ASTM D5185m	>15	<b>2</b>	4	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

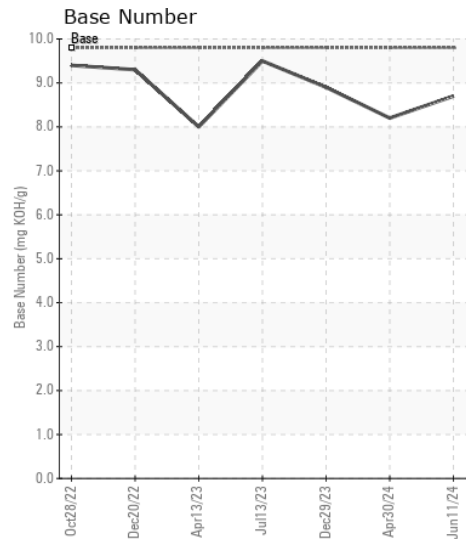
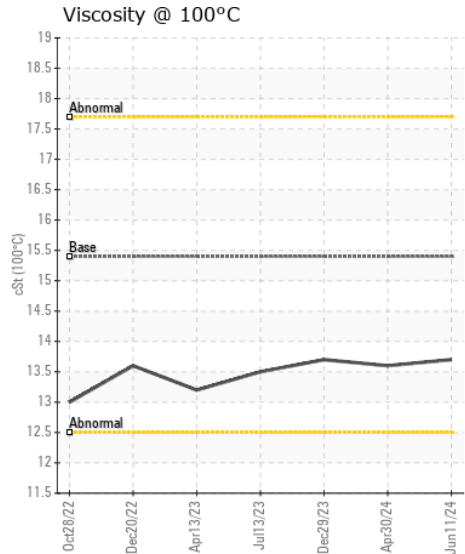
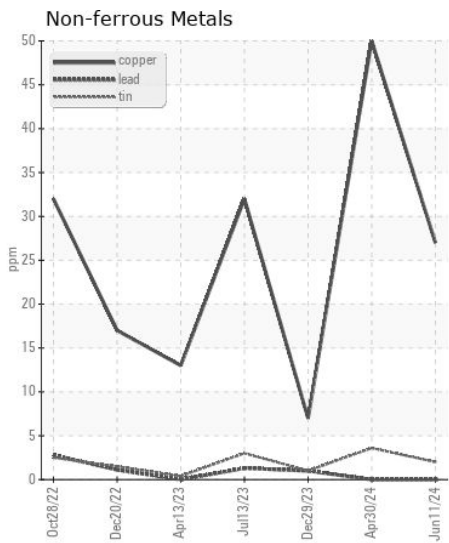
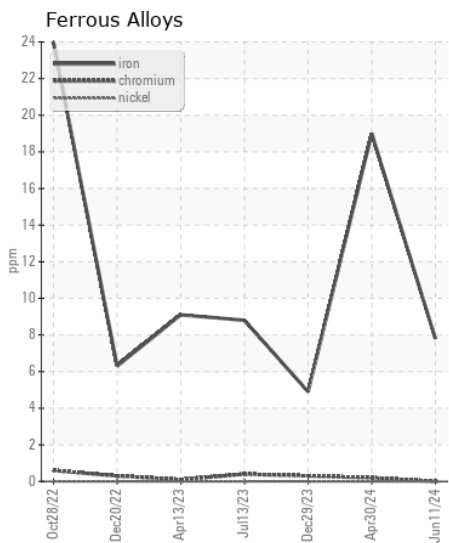
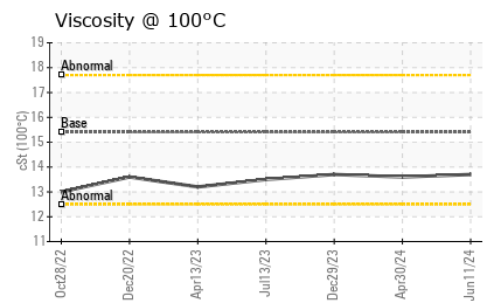
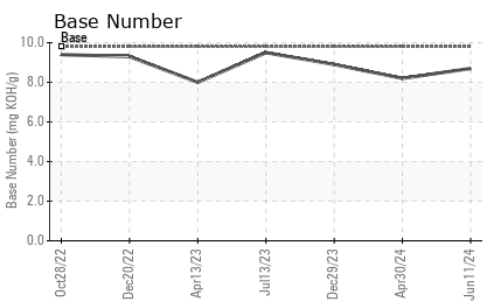
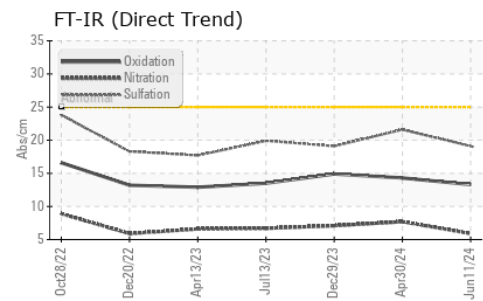
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>2</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
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	>4	<b>1</b>	1.9	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.9</b>	7.7	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.1</b>	21.6	19.1
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>&lt;1</b>	1	<1
Boron	ppm	ASTM D5185m	0	<b>4</b>	1	<1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>56</b>	60	56
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m	1010	<b>977</b>	967	943
Calcium	ppm	ASTM D5185m	1070	<b>1070</b>	1052	1019
Phosphorus	ppm	ASTM D5185m	1150	<b>1107</b>	1023	1077
Zinc	ppm	ASTM D5185m	1270	<b>1307</b>	1263	1201
Sulfur	ppm	ASTM D5185m	2060	<b>3728</b>	3292	3124
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.3</b>	14.3	14.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.7</b>	8.2	8.9
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.7</b>	13.6	13.7



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0123774 **Received** : 17 Jun 2024  
**Lab Number** : 06211272 **Tested** : 18 Jun 2024  
**Unique Number** : 11084136 **Diagnosed** : 18 Jun 2024 - Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 918 - Hartland HC**  
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 Hartland, WI  
 US 53029  
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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)