



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



Machine Id  
**1126M**  
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>GFL0122371</b>	GFL0108965	GFL0105603
Sample Date		Client Info		<b>20 May 2024</b>	01 Mar 2024	13 Dec 2023
Machine Age	hrs	Client Info		<b>13748</b>	13157	12568
Oil Age	hrs	Client Info		<b>0</b>	12568	12354
Filter Age	hrs	Client Info		<b>0</b>	12568	12354
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	>200	<b>40</b>	12	13
Chromium	ppm	ASTM D5185m	>20	<b>5</b>	2	1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>7</b>	4	3
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	0	1
Copper	ppm	ASTM D5185m	>30	<b>8</b>	3	4
Tin	ppm	ASTM D5185m	>15	<b>2</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

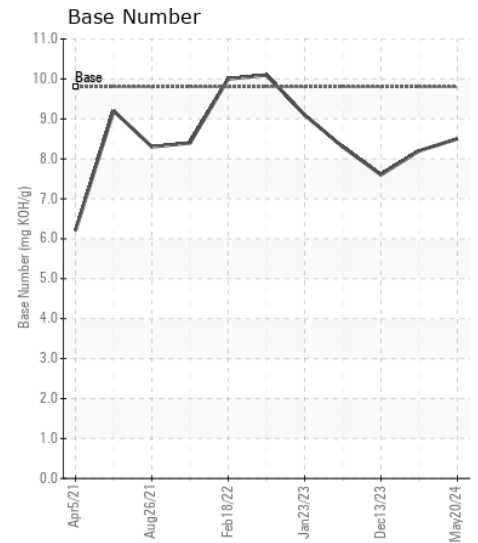
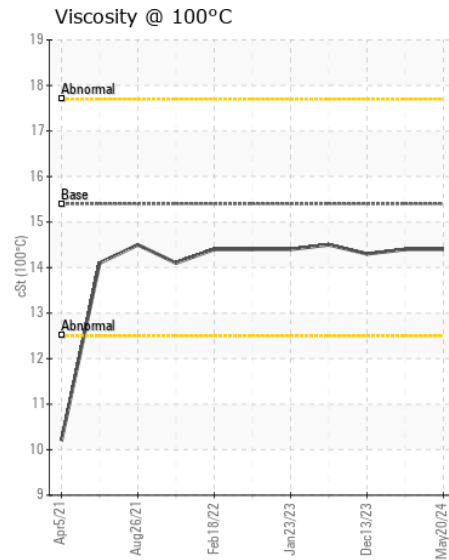
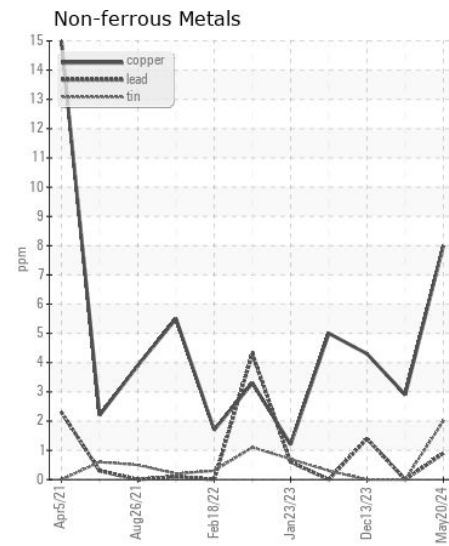
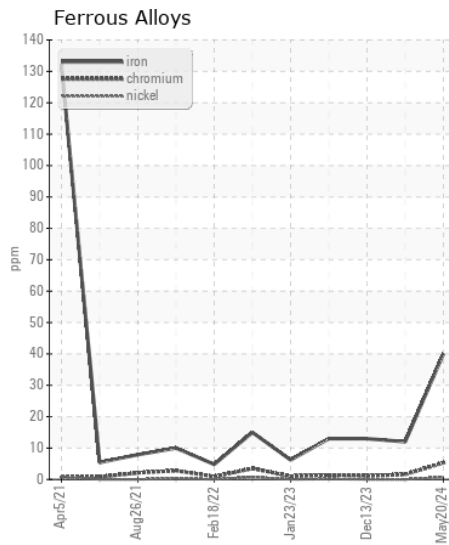
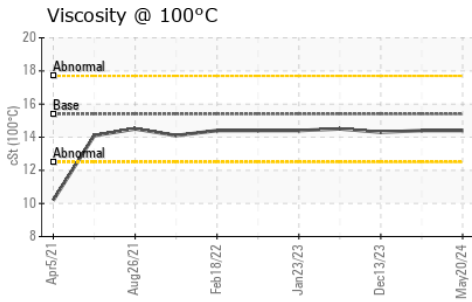
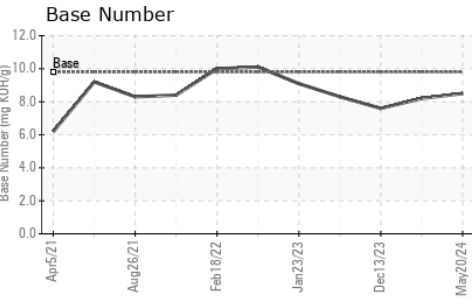
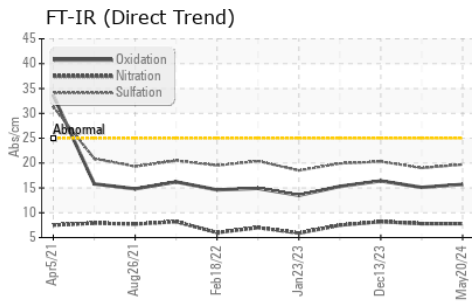
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>13</b>	6	5
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	3	2
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	>3	<b>0.6</b>	0.6	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.8</b>	7.8	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.7</b>	19.0	20.3
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>5</b>	4	<1
Boron	ppm	ASTM D5185m	0	<b>0</b>	<1	1
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>63</b>	65	56
Manganese	ppm	ASTM D5185m	0	<b>1</b>	0	0
Magnesium	ppm	ASTM D5185m	1010	<b>996</b>	975	1024
Calcium	ppm	ASTM D5185m	1070	<b>1133</b>	1034	1164
Phosphorus	ppm	ASTM D5185m	1150	<b>1103</b>	1008	1075
Zinc	ppm	ASTM D5185m	1270	<b>1301</b>	1278	1251
Sulfur	ppm	ASTM D5185m	2060	<b>3336</b>	2884	2787
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.7</b>	15.1	16.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.5</b>	8.2	7.6
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.4</b>	14.4	14.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0122371  
**Lab Number** : 06187369  
**Unique Number** : 11044121  
**Test Package** : FLEET  
**Received** : 22 May 2024  
**Tested** : 23 May 2024  
**Diagnosed** : 24 May 2024 - Don Baldrige

**GFL Environmental - 415 - Michigan East**  
 6200 Elmridge  
 Sterling Heights, MI  
 US 48313  
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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)