



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

Machine Id  
**811045**  
 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>GFL0046909</b>	GFL0090938	GFL0098851
Sample Date		Client Info		<b>03 Jan 2024</b>	18 Dec 2023	09 Nov 2023
Machine Age	hrs	Client Info		<b>6562</b>	6455	6202
Oil Age	hrs	Client Info		<b>107</b>	253	62
Filter Age	hrs	Client Info		<b>0</b>	0	62
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	>100	<b>15</b>	7	4
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	3	1
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	0
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**

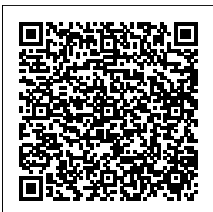
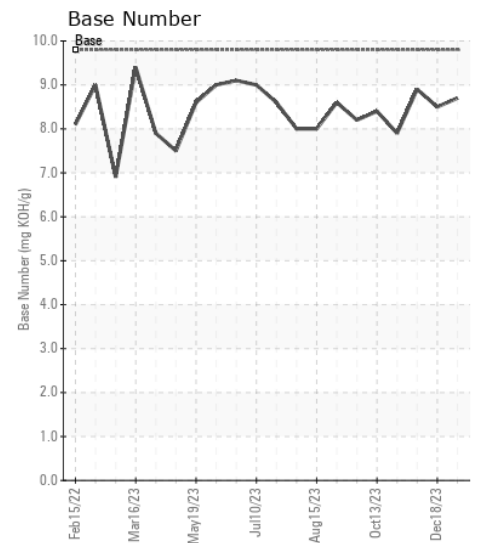
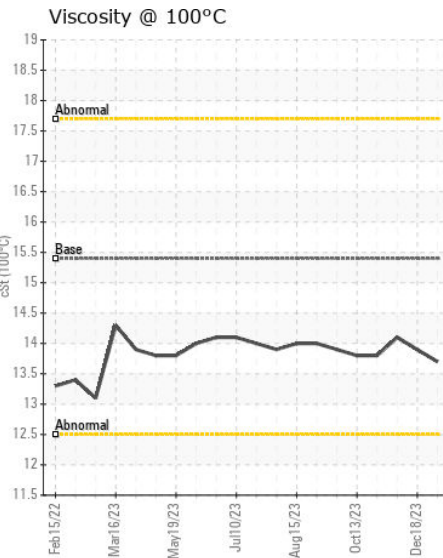
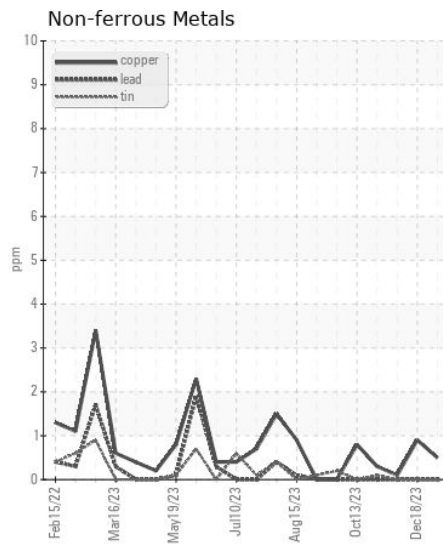
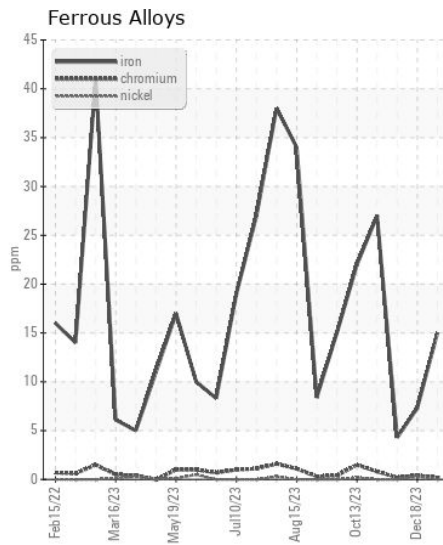
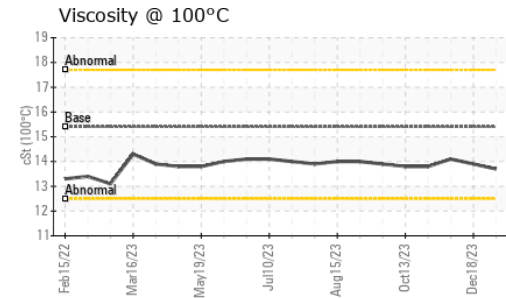
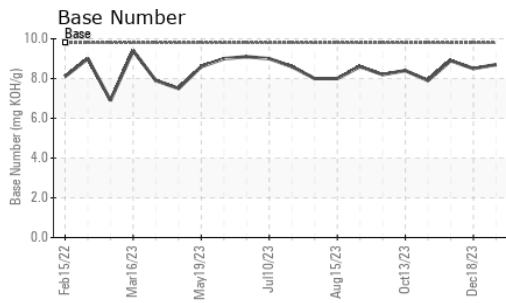
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	4	2
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	3
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>0.6</b>	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.4</b>	6.5	5.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.0</b>	18.3	17.7
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>3</b>	4	<1
Boron	ppm	ASTM D5185m	0	<b>3</b>	7	3
Barium	ppm	ASTM D5185m	0	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185m	60	<b>60</b>	57	57
Manganese	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m	1010	<b>971</b>	938	889
Calcium	ppm	ASTM D5185m	1070	<b>1066</b>	1026	990
Phosphorus	ppm	ASTM D5185m	1150	<b>1056</b>	1104	980
Zinc	ppm	ASTM D5185m	1270	<b>1247</b>	1282	1174
Sulfur	ppm	ASTM D5185m	2060	<b>3336</b>	3154	3250
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.2</b>	13.9	13.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.7</b>	8.5	8.9
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.7</b>	13.9	14.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0046909 **Received** : 09 Jan 2024  
**Lab Number** : 06055793 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821742 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**GFL Environmental - 814 - Little Rock Hauling**  
 4005 Hwy 161 N.  
 Little Rock, AR  
 US 72117  
 Contact: Brad Manager

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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F: