



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

Machine Id  
**10711**

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>GFL0068884</b>	GFL0097232	GFL0097224
Sample Date		Client Info		<b>13 Jan 2024</b>	10 Nov 2023	13 Oct 2023
Machine Age	hrs	Client Info		<b>1232</b>	1117	1012
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>21</b>	17	13
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	▲ 9
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>16</b>	11	2
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>1</b>	0	3
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
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**

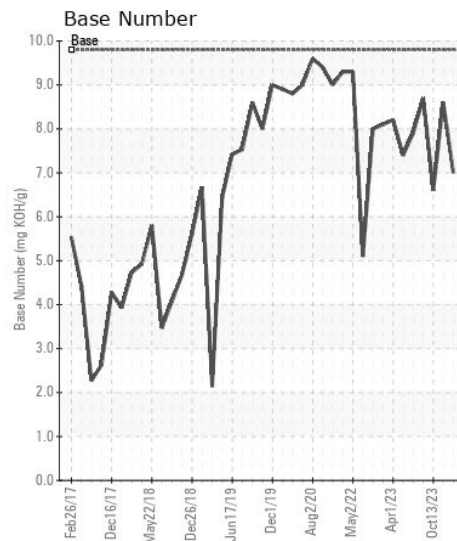
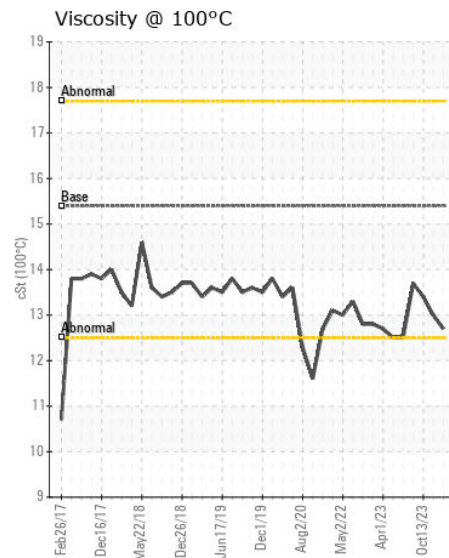
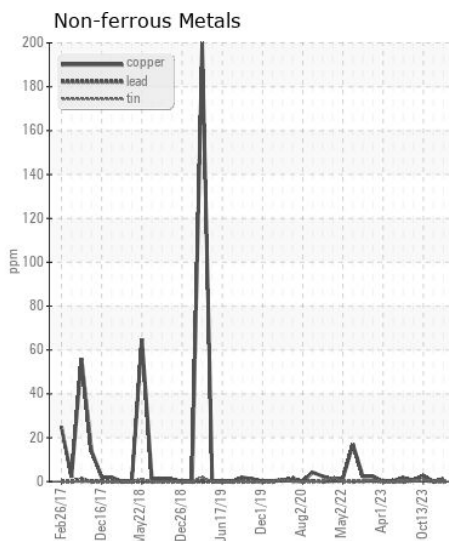
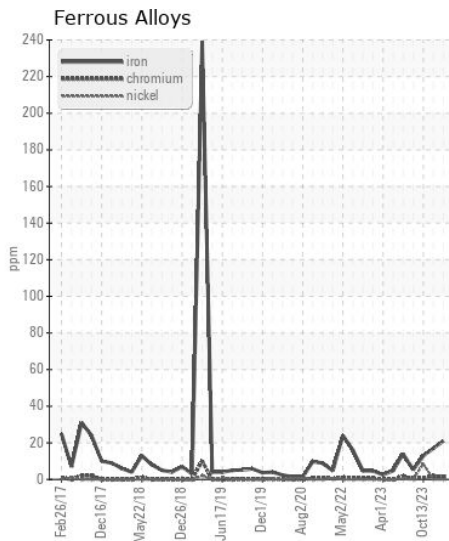
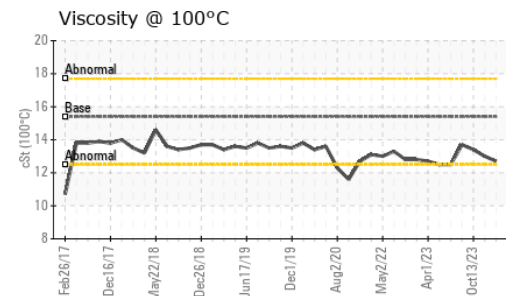
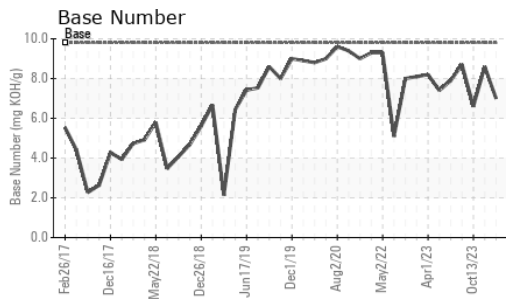
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	6	4
Potassium	ppm	ASTM D5185m	>20	<b>10</b>	7	2
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>0.3</b>	0.2	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.9</b>	6.5	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.3</b>	17.9	19.5
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>2</b>	0	5
Boron	ppm	ASTM D5185m	0	<b>2</b>	6	3
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	10
Molybdenum	ppm	ASTM D5185m	60	<b>61</b>	57	62
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>982</b>	933	860
Calcium	ppm	ASTM D5185m	1070	<b>1011</b>	986	985
Phosphorus	ppm	ASTM D5185m	1150	<b>1052</b>	1007	930
Zinc	ppm	ASTM D5185m	1270	<b>1252</b>	1253	1093
Sulfur	ppm	ASTM D5185m	2060	<b>2973</b>	3009	2427
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.6</b>	13.4	15.6
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>7.0</b>	8.6	6.6
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.7</b>	13.0	13.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0068884 **Received** : 19 Jan 2024  
**Lab Number** : 06065346 **Diagnosed** : 20 Jan 2024  
**Unique Number** : 10836728 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

GFL Environmental - 073 - Warner Robins - Trwaste  
 155 Story Road  
 Warner Robins, GA  
 US 31093  
 Contact: JOSH MALONEY  
 jmaloney@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)