



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



Area  
**(PG4339)**  
Machine Id  
**960T**  
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>GFL0077446</b>	GFL0083072	GFL0097226
Sample Date		Client Info		<b>21 May 2024</b>	02 Nov 2023	24 Oct 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
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	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>80	<b>49</b>	29	20
Chromium	ppm	ASTM D5185m	>5	<b>4</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>29</b>	8	1
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	14	<1
Copper	ppm	ASTM D5185m	>150	<b>7</b>	1	2
Tin	ppm	ASTM D5185m	>5	<b>1</b>	<1	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**

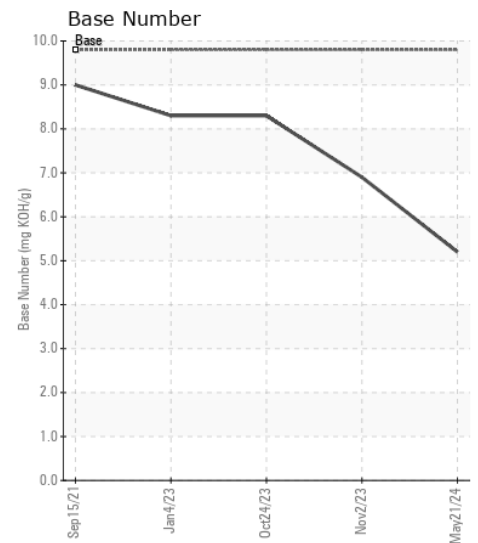
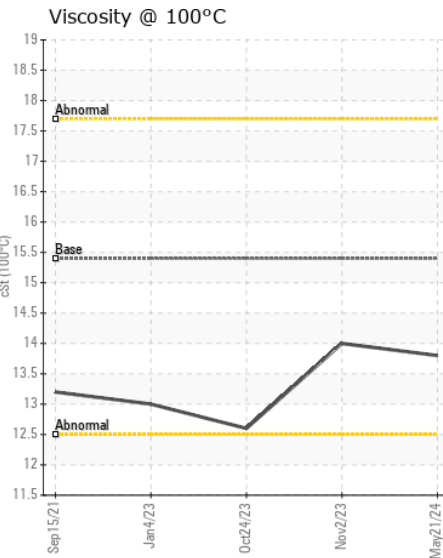
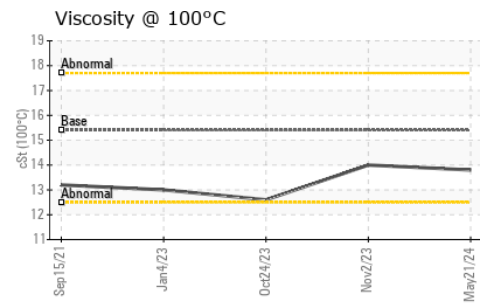
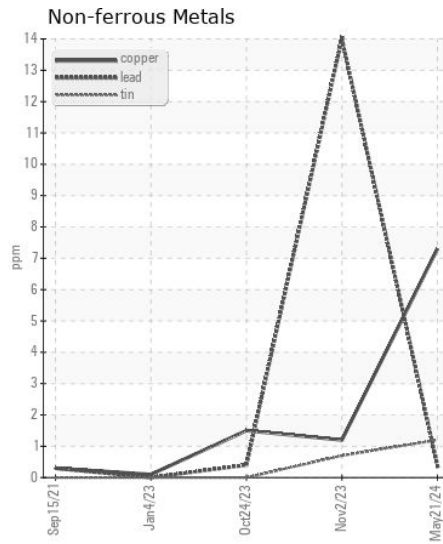
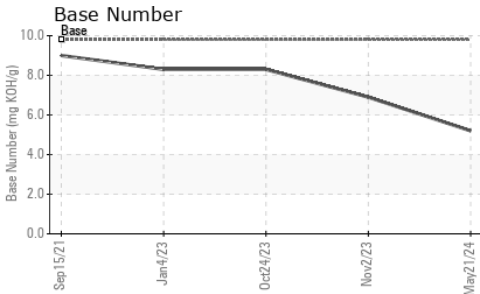
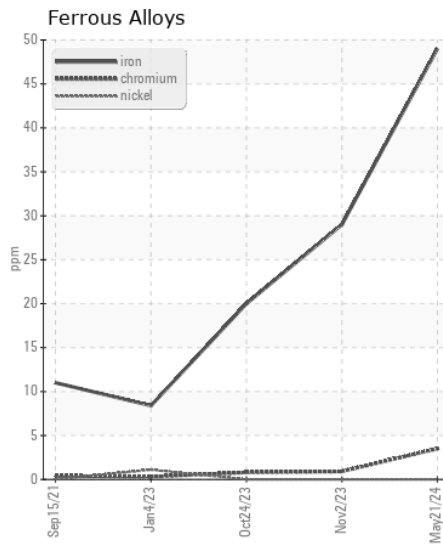
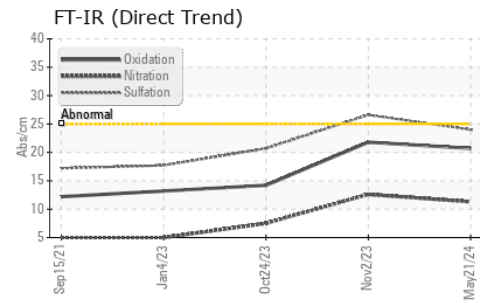
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>7</b>	11	8
Potassium	ppm	ASTM D5185m	>20	<b>19</b>	0	<1
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>0.9</b>	1.1	1.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.3</b>	12.6	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.0</b>	26.6	20.7
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>6</b>	1	5
Boron	ppm	ASTM D5185m	0	<b>4</b>	17	13
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>61</b>	66	61
Manganese	ppm	ASTM D5185m	0	<b>1</b>	<1	0
Magnesium	ppm	ASTM D5185m	1010	<b>899</b>	554	862
Calcium	ppm	ASTM D5185m	1070	<b>1045</b>	1623	1045
Phosphorus	ppm	ASTM D5185m	1150	<b>970</b>	997	1084
Zinc	ppm	ASTM D5185m	1270	<b>1203</b>	1304	1122
Sulfur	ppm	ASTM D5185m	2060	<b>2719</b>	2929	2764
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.7</b>	21.8	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>5.2</b>	6.9	8.3
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.8</b>	14.0	12.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0077446  
**Lab Number** : 06193771  
**Unique Number** : 11055894  
**Test Package** : FLEET

**Received** : 29 May 2024  
**Tested** : 30 May 2024  
**Diagnosed** : 31 May 2024 - Angela Borella

**GFL Environmental - 072 - Americus - Transwaste**  
 361 McMath Mill Road  
 Americus, GA  
 US 31719

Contact: RICHARD HEINZERLING  
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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)

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