



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

Machine Id  
**732012**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0106748</b>	GFL0084653	GFL0078008
Sample Date		Client Info		<b>10 Apr 2024</b>	16 Oct 2023	18 Apr 2023
Machine Age	hrs	Client Info		<b>4407</b>	0	35867
Oil Age	hrs	Client Info		<b>4407</b>	0	0
Filter Age	hrs	Client Info		<b>4407</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>24</b>	8	29
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	<1	2
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>4</b>	2	3
Lead	ppm	ASTM D5185m	>30	<b>11</b>	4	11
Copper	ppm	ASTM D5185m	>35	<b>0</b>	1	4
Tin	ppm	ASTM D5185m	>4	<b>2</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

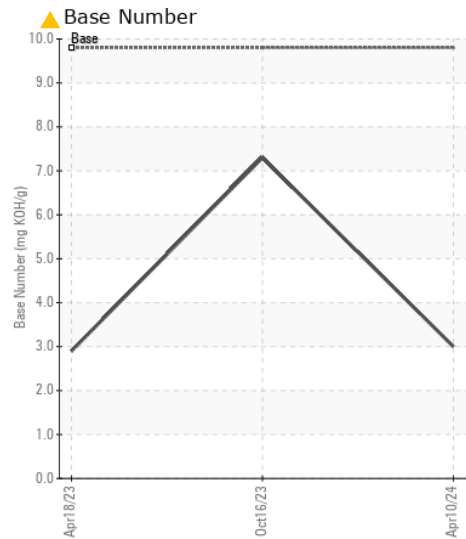
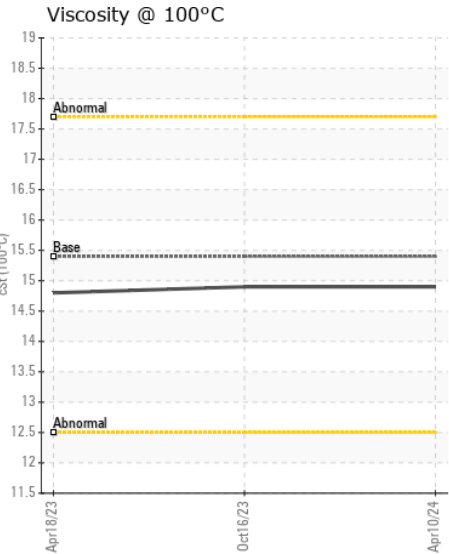
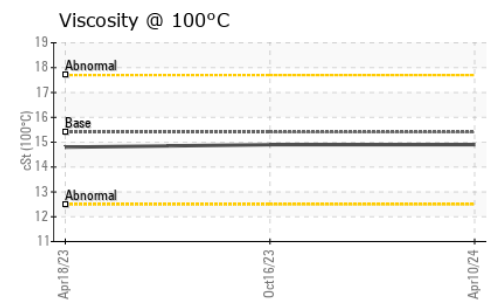
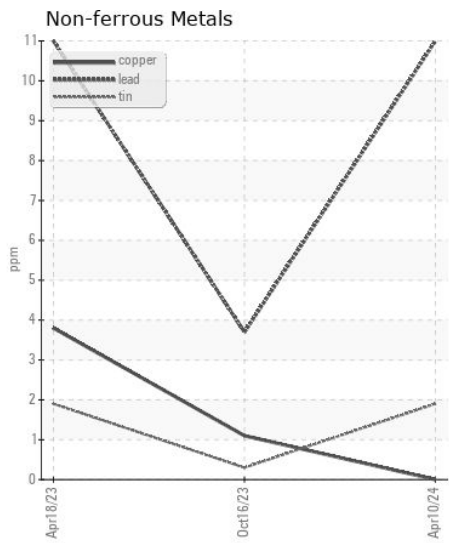
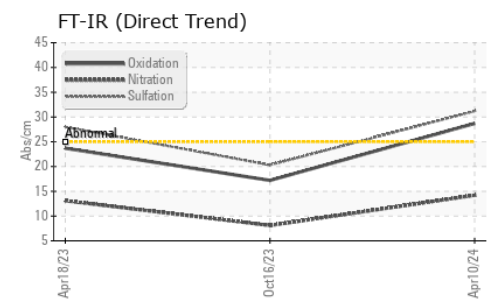
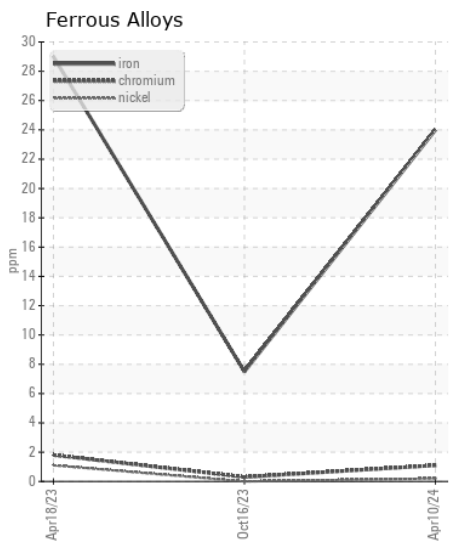
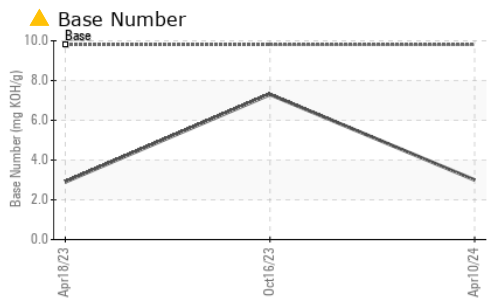
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>7</b>	4	8
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	3	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>14.2</b>	8.1	13.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>31.2</b>	20.3	28.0
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	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The BN level is low.

Sodium	ppm	ASTM D5185m		<b>13</b>	5	12
Boron	ppm	ASTM D5185m	0	<b>12</b>	33	6
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>66</b>	52	65
Manganese	ppm	ASTM D5185m	0	<b>1</b>	<1	2
Magnesium	ppm	ASTM D5185m	1010	<b>689</b>	592	666
Calcium	ppm	ASTM D5185m	1070	<b>1944</b>	1736	1881
Phosphorus	ppm	ASTM D5185m	1150	<b>884</b>	816	839
Zinc	ppm	ASTM D5185m	1270	<b>1108</b>	1006	1133
Sulfur	ppm	ASTM D5185m	2060	<b>2874</b>	2492	2794
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>28.7</b>	17.2	23.7
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>3.0</b>	7.3	2.9
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.9</b>	14.9	14.8



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0106748 **Received** : 17 Apr 2024  
**Lab Number** : 06151499 **Tested** : 18 Apr 2024  
**Unique Number** : 10981577 **Diagnosed** : 19 Apr 2024 - Sean Felton  
**Test Package** : FLEET

**GFL Environmental - 856 - Houston South**  
 8515 Highway 6 South  
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 US 77083  
 Contact: Jose Gonzalez  
 jgonzalez2@gflenv.com  
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Certificate L2367  
 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)