



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

Machine Id  
**733005**  
 Component  
**Natural Gas 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>GFL0121772</b>	GFL0106857	GFL0092161
Sample Date		Client Info		<b>26 Jun 2024</b>	18 Apr 2024	07 Feb 2024
Machine Age	hrs	Client Info		<b>4910</b>	4287	3728
Oil Age	hrs	Client Info		<b>600</b>	20900	0
Filter Age	hrs	Client Info		<b>600</b>	20900	0
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	>50	<b>4</b>	7	<1
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	2	1
Lead	ppm	ASTM D5185m	>30	<b>0</b>	2	2
Copper	ppm	ASTM D5185m	>35	<b>0</b>	2	<1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	<1
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**

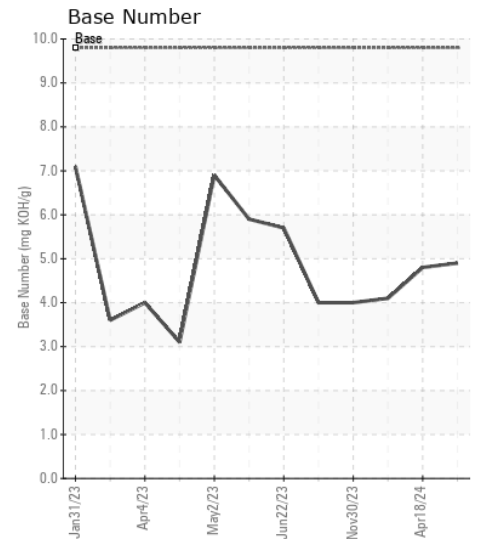
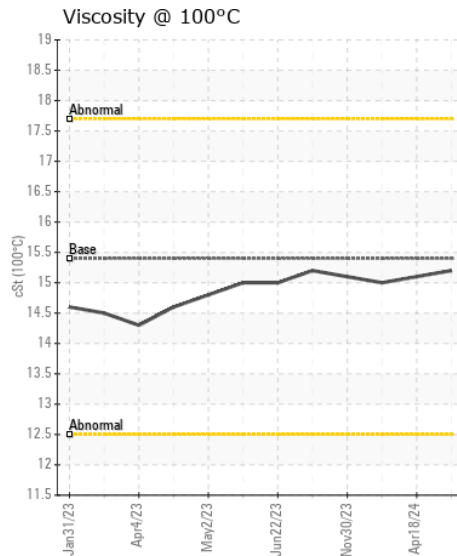
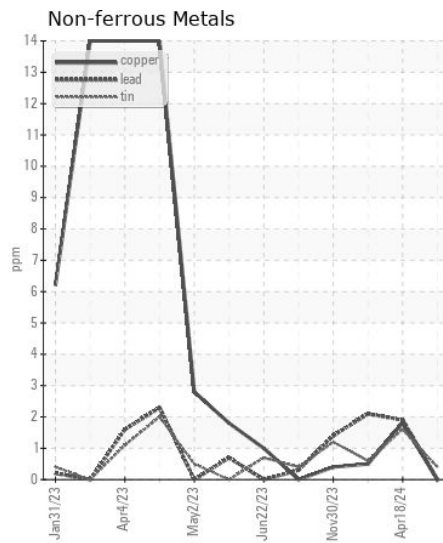
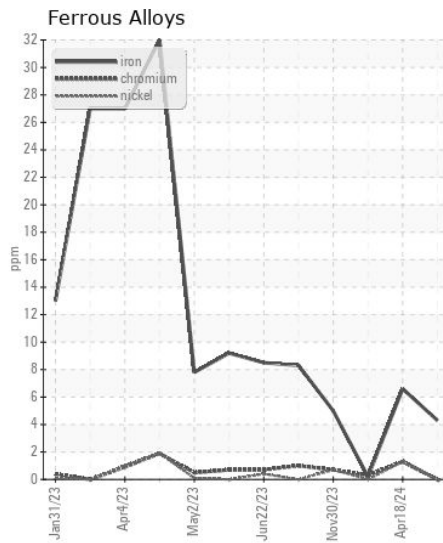
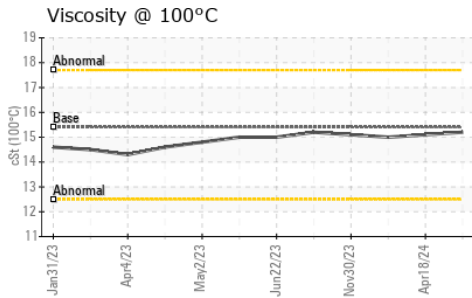
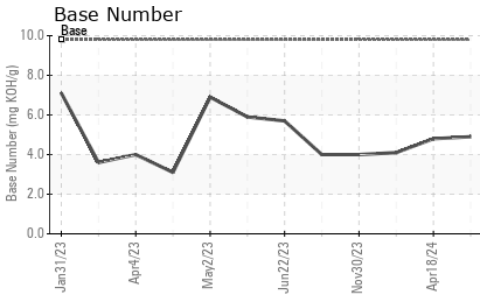
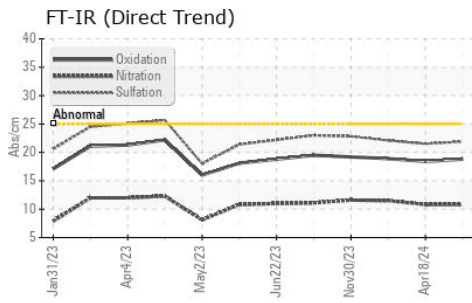
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>4</b>	6	<1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	4	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.8</b>	10.8	11.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.9</b>	21.5	22.1
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 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>7</b>	6	6
Boron	ppm	ASTM D5185m	0	<b>8</b>	10	8
Barium	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	60	<b>51</b>	55	51
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m	1010	<b>599</b>	547	506
Calcium	ppm	ASTM D5185m	1070	<b>1663</b>	1648	1496
Phosphorus	ppm	ASTM D5185m	1150	<b>704</b>	684	597
Zinc	ppm	ASTM D5185m	1270	<b>979</b>	966	890
Sulfur	ppm	ASTM D5185m	2060	<b>2801</b>	2701	2175
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.8</b>	18.4	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>4.9</b>	4.8	4.1
Visc @ 100°C	cSt	ASTM D445	15.4	<b>15.2</b>	15.1	15.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0121772  
**Lab Number** : 06227202  
**Unique Number** : 11110695  
**Test Package** : FLEET

**Received** : 03 Jul 2024  
**Tested** : 05 Jul 2024  
**Diagnosed** : 05 Jul 2024 - Angela Borella

**GFL Environmental - 856 - Houston South**  
 8515 Highway 6 South  
 Houston, TX  
 US 77083  
 Contact: Apolinar Zacarias  
 pzacariascano@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)

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F: