



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

Machine Id  
**940005**  
 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>GFL0113022</b>	GFL0113037	GFL0059656
Sample Date		Client Info		<b>29 May 2024</b>	06 Mar 2024	01 Dec 2023
Machine Age	hrs	Client Info		<b>10039</b>	0	0
Oil Age	hrs	Client Info		<b>598</b>	0	0
Filter Age	hrs	Client Info		<b>598</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>6</b>	8	16
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	2	3
Lead	ppm	ASTM D5185m	>30	<b>1</b>	4	14
Copper	ppm	ASTM D5185m	>35	<b>2</b>	5	4
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

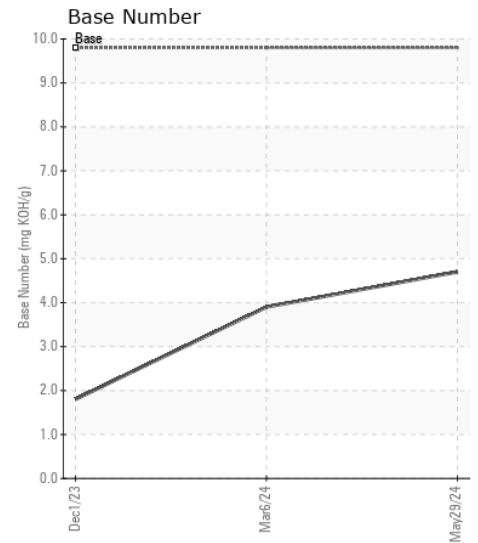
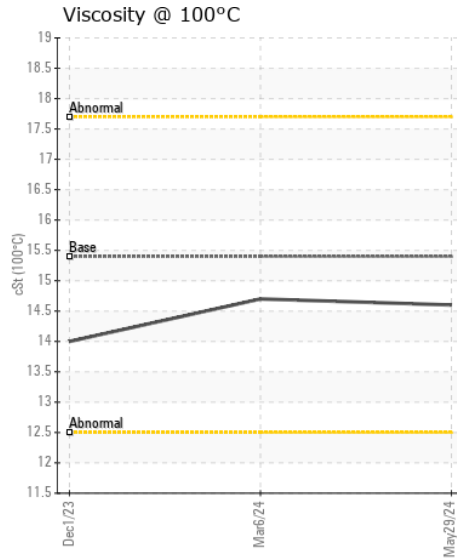
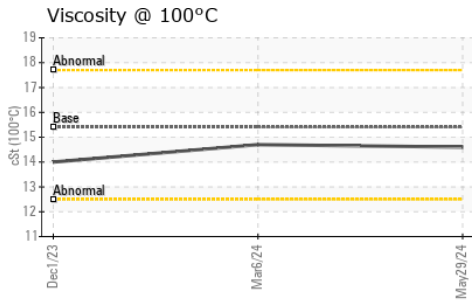
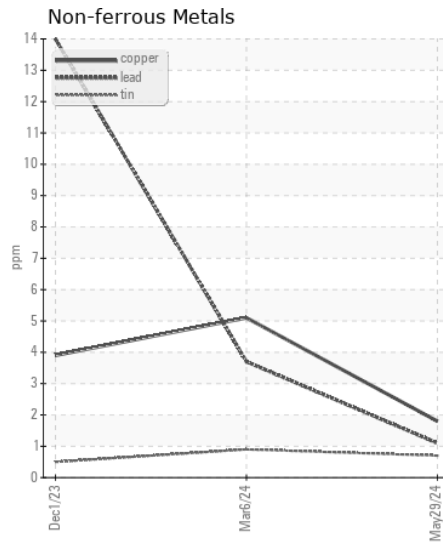
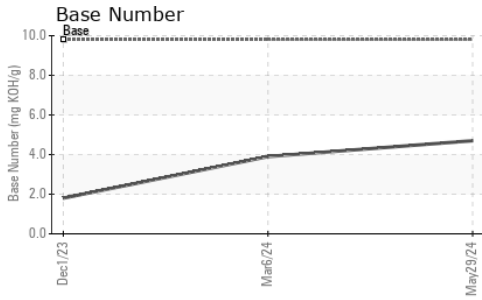
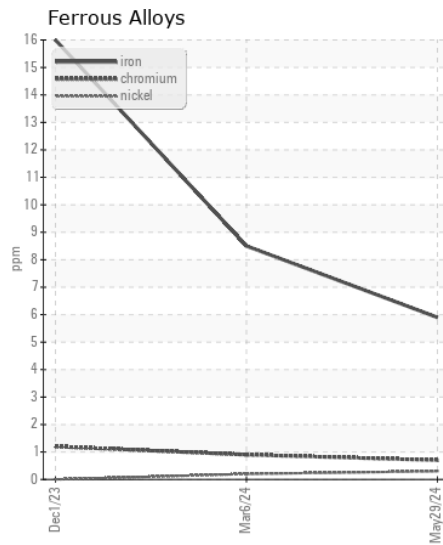
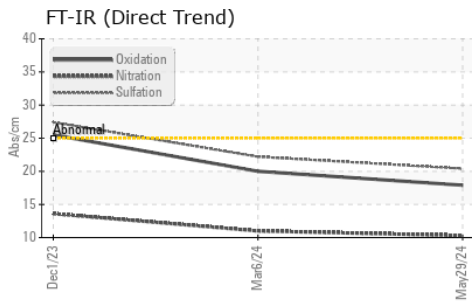
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>5</b>	8	15
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	5	14
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>10.3</b>	11.0	13.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.4</b>	22.2	27.4
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>6</b>	6	11
Boron	ppm	ASTM D5185m	0	<b>12</b>	11	3
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>52</b>	61	82
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1010	<b>551</b>	548	585
Calcium	ppm	ASTM D5185m	1070	<b>1498</b>	1638	1627
Phosphorus	ppm	ASTM D5185m	1150	<b>725</b>	725	751
Zinc	ppm	ASTM D5185m	1270	<b>957</b>	960	956
Sulfur	ppm	ASTM D5185m	2060	<b>2591</b>	2555	2357
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.9</b>	20.0	25.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>4.7</b>	3.9	▲ 1.8
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.6</b>	14.7	14.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0113022 **Received** : 03 Jun 2024  
**Lab Number** : 06197328 **Tested** : 04 Jun 2024  
**Unique Number** : 11059451 **Diagnosed** : 04 Jun 2024 - Sean Felton  
**Test Package** : FLEET

**GFL Environmental - 924 - Madison HC**  
 300 Raemisch Road  
 Waunakee, WI  
 US 53597  
 Contact: Ben Briggs  
 ben.briggs@gflenv.com  
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 F:

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)