



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



Area  
**(GFD986)**  
Machine Id  
**934029**  
Component  
**Natural Gas Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (21 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0122643</b>	GFL0114538	GFL0074644
Sample Date		Client Info		<b>25 Jun 2024</b>	08 May 2024	17 Jan 2024
Machine Age	hrs	Client Info		<b>1187</b>	1760	1187
Oil Age	hrs	Client Info		<b>938</b>	573	1187
Filter Age	hrs	Client Info		<b>938</b>	573	1187
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>41</b>	30	▲ 76
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	<1	2
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	<1	2
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>11</b>	8	19
Lead	ppm	ASTM D5185m	>30	<b>4</b>	2	2
Copper	ppm	ASTM D5185m	>35	<b>8</b>	4	18
Tin	ppm	ASTM D5185m	>4	<b>2</b>	1	3
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

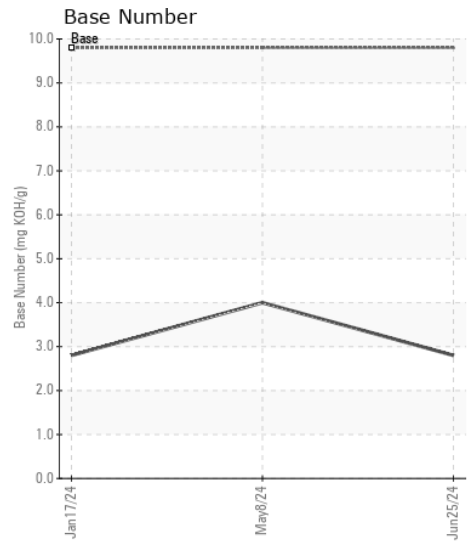
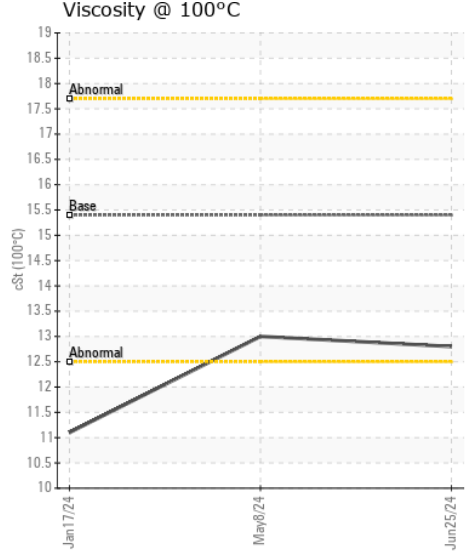
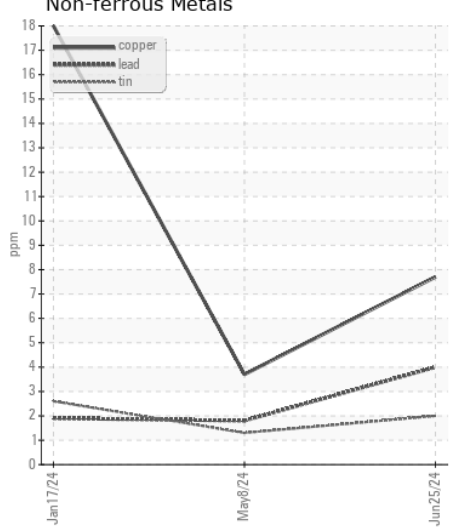
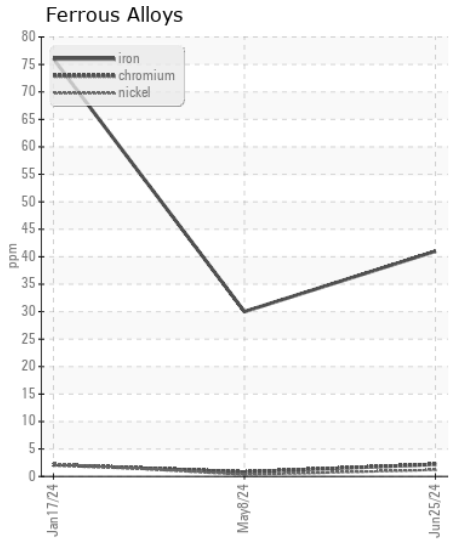
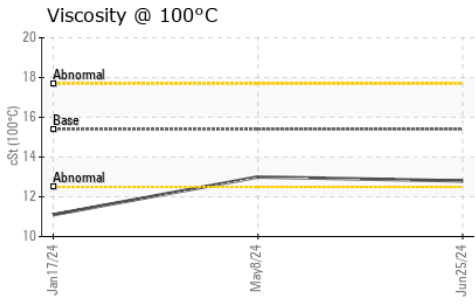
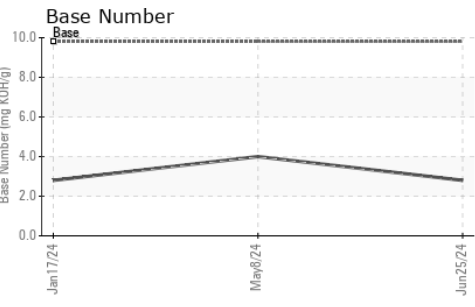
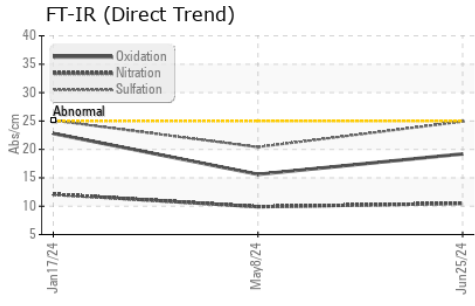
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>10</b>	8	28
Potassium	ppm	ASTM D5185m	>20	<b>18</b>	15	48
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>10.5</b>	9.9	12.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.9</b>	20.4	25.1
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>10</b>	7	6
Boron	ppm	ASTM D5185m	0	<b>1</b>	2	4
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	4
Molybdenum	ppm	ASTM D5185m	60	<b>75</b>	70	62
Manganese	ppm	ASTM D5185m	0	<b>3</b>	3	13
Magnesium	ppm	ASTM D5185m	1010	<b>1030</b>	894	853
Calcium	ppm	ASTM D5185m	1070	<b>1321</b>	1140	1144
Phosphorus	ppm	ASTM D5185m	1150	<b>1036</b>	965	807
Zinc	ppm	ASTM D5185m	1270	<b>1398</b>	1195	1013
Sulfur	ppm	ASTM D5185m	2060	<b>2991</b>	2953	2207
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.2</b>	15.6	22.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>2.8</b>	4.0	2.8
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.8</b>	13.0	11.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0122643 **Received** : 28 Jun 2024  
**Lab Number** : 06223354 **Tested** : 01 Jul 2024  
**Unique Number** : 11101551 **Diagnosed** : 01 Jul 2024 - Don Baldrige  
**Test Package** : FLEET

**GFL Environmental - 095 - Atlanta West**  
 2699 Cochran Industrial Blvd  
 Douglasville, GA  
 US 30127-1332  
 Contact: Darrell Welch  
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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)