



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



Area  
**(GGJ473)**  
Machine Id  
**934030**  
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>GFL0122661</b>	GFL0103435	---
Sample Date		Client Info		<b>25 Jun 2024</b>	20 Mar 2024	---
Machine Age	hrs	Client Info		<b>1144</b>	1144	---
Oil Age	hrs	Client Info		<b>757</b>	1144	---
Filter Age	hrs	Client Info		<b>757</b>	1144	---
Oil Changed		Client Info		<b>Not Changed</b>	Changed	---
Filter Changed		Client Info		<b>Not Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>27</b>	▲ 67	---
Chromium	ppm	ASTM D5185m	>4	<b>2</b>	3	---
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	3	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>9	<b>21</b>	38	---
Lead	ppm	ASTM D5185m	>30	<b>1</b>	3	---
Copper	ppm	ASTM D5185m	>35	<b>5</b>	25	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

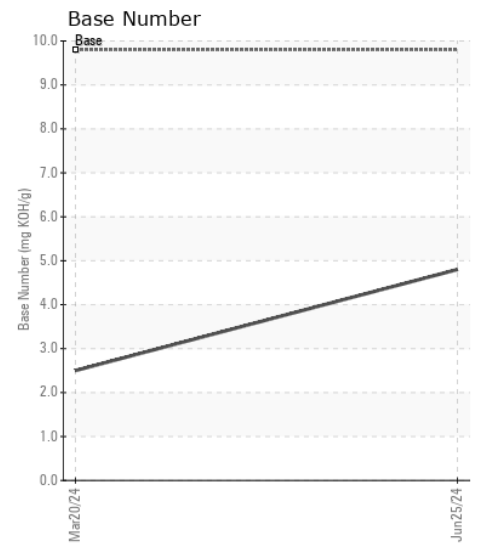
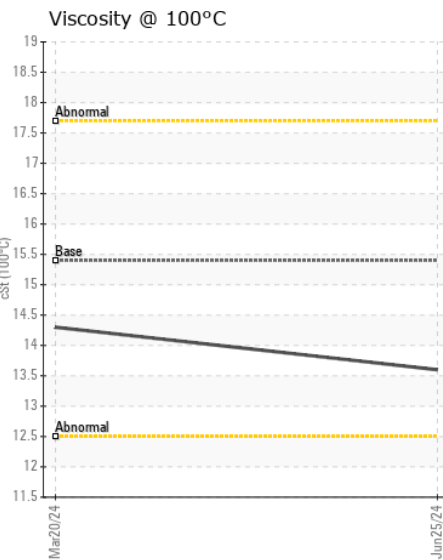
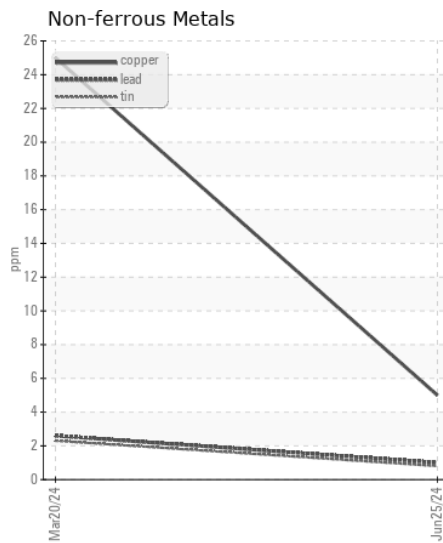
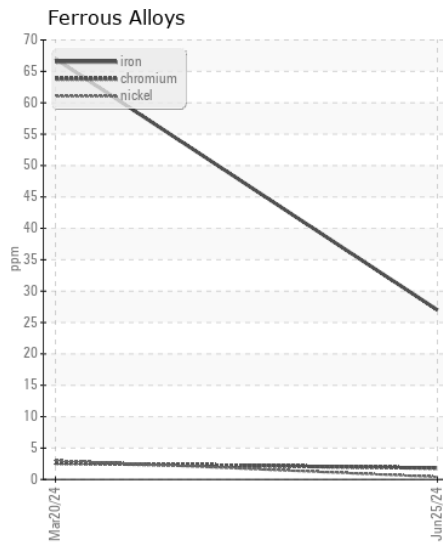
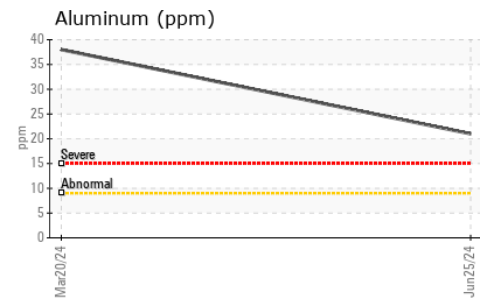
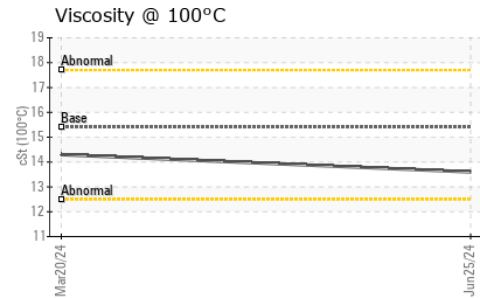
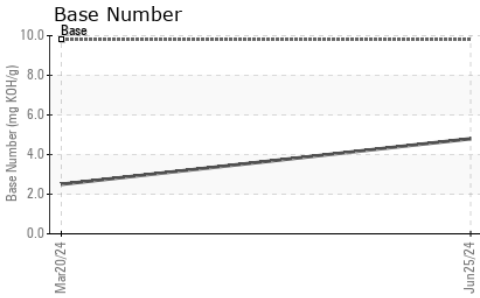
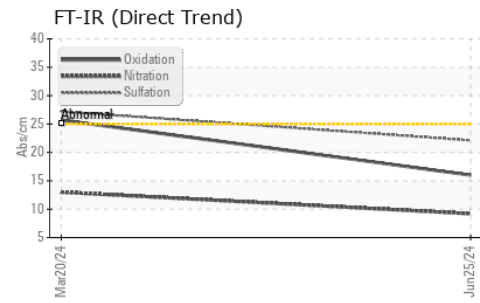
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	<b>9</b>	32	---
Potassium	ppm	ASTM D5185m	>20	<b>46</b>	109	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844		<b>0</b>	0	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.2</b>	13.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.1</b>	27.2	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	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>8</b>	7	---
Boron	ppm	ASTM D5185m	0	<b>2</b>	4	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	3	---
Molybdenum	ppm	ASTM D5185m	60	<b>71</b>	69	---
Manganese	ppm	ASTM D5185m	0	<b>3</b>	17	---
Magnesium	ppm	ASTM D5185m	1010	<b>1047</b>	932	---
Calcium	ppm	ASTM D5185m	1070	<b>1302</b>	1275	---
Phosphorus	ppm	ASTM D5185m	1150	<b>1062</b>	944	---
Zinc	ppm	ASTM D5185m	1270	<b>1436</b>	1099	---
Sulfur	ppm	ASTM D5185m	2060	<b>3351</b>	2558	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.0</b>	25.7	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>4.8</b>	▲ 2.5	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.6</b>	14.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0122661  
**Lab Number** : 06223353  
**Unique Number** : 11101550  
**Test Package** : FLEET

**Received** : 28 Jun 2024  
**Tested** : 01 Jul 2024  
**Diagnosed** : 01 Jul 2024 - Wes Davis

**GFL Environmental - 095 - Atlanta West**  
 2699 Cochran Industrial Blvd  
 Douglasville, GA  
 US 30127-1332

Contact: Darrell Welch  
 darrell.welch@gflenv.com

T: (800)207-6618

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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