



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



Machine Id  
**933035**  
Component  
**Natural Gas Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (5 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0103422</b>	GFL0092490	---
Sample Date		Client Info		<b>22 Feb 2024</b>	09 Nov 2023	---
Machine Age	hrs	Client Info		<b>2194</b>	1315	---
Oil Age	hrs	Client Info		<b>879</b>	1315	---
Filter Age	hrs	Client Info		<b>960</b>	1315	---
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>	▲ 70	---
Chromium	ppm	ASTM D5185m	>5	<b>1</b>	2	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	---
Titanium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>25	<b>5</b>	10	---
Lead	ppm	ASTM D5185m	>40	<b>1</b>	<1	---
Copper	ppm	ASTM D5185m	>150	<b>4</b>	15	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

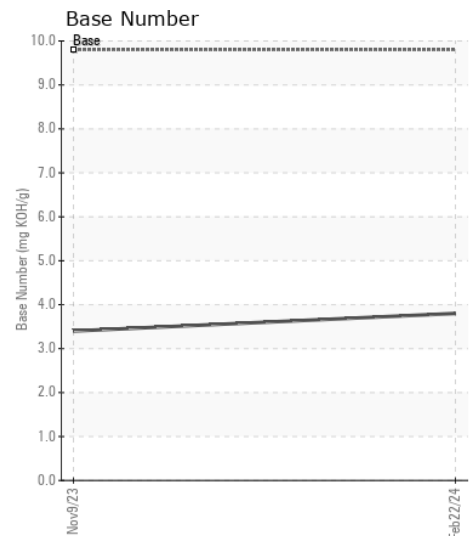
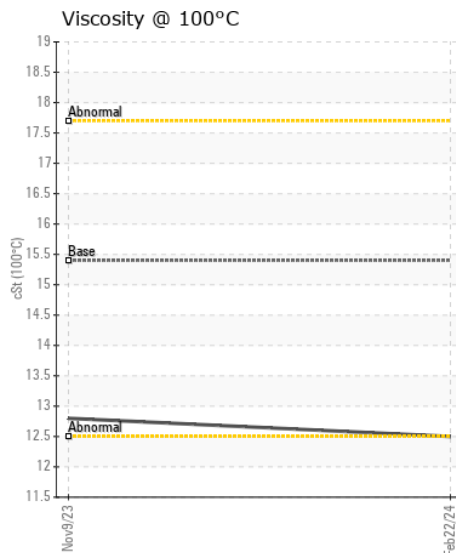
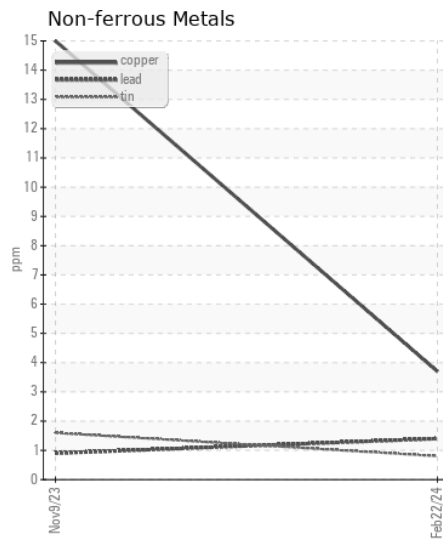
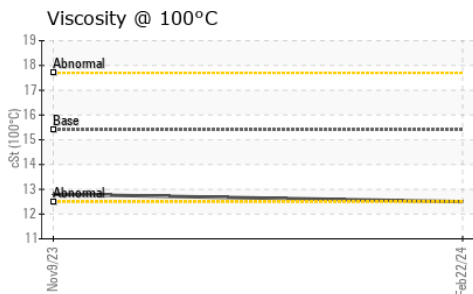
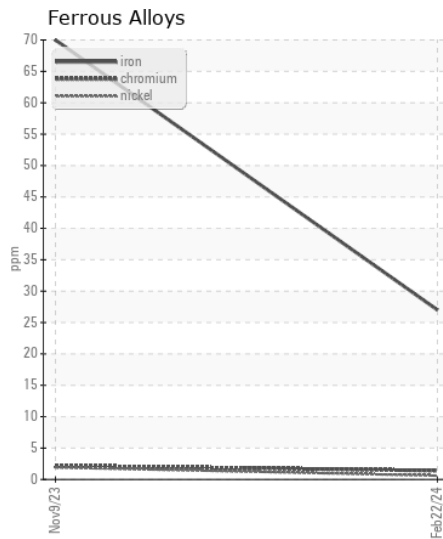
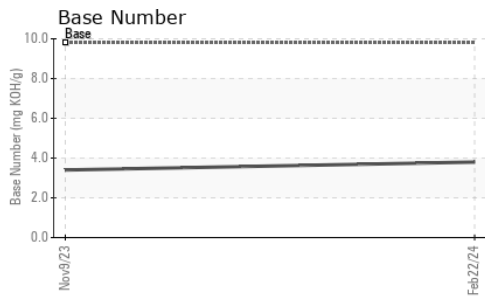
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	19	---
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	16	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844		<b>0.1</b>	0	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.7</b>	10.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.2</b>	23.1	---
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>	4	---
Boron	ppm	ASTM D5185m	0	<b>&lt;1</b>	5	---
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	---
Molybdenum	ppm	ASTM D5185m	60	<b>67</b>	55	---
Manganese	ppm	ASTM D5185m	0	<b>2</b>	11	---
Magnesium	ppm	ASTM D5185m	1010	<b>839</b>	825	---
Calcium	ppm	ASTM D5185m	1070	<b>1061</b>	951	---
Phosphorus	ppm	ASTM D5185m	1150	<b>892</b>	818	---
Zinc	ppm	ASTM D5185m	1270	<b>1115</b>	1061	---
Sulfur	ppm	ASTM D5185m	2060	<b>2301</b>	2196	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.2</b>	20.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>3.8</b>	3.4	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.5</b>	12.8	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : GFL0103422  
**Lab Number** : 06099840  
**Unique Number** : 10898070  
**Test Package** : FLEET

**Received** : 26 Feb 2024  
**Tested** : 27 Feb 2024  
**Diagnosed** : 27 Feb 2024 - Wes Davis

**GFL Environmental - 095 - Atlanta West**  
 2699 Cochran Industrial Blvd  
 Douglasville, GA  
 US 30127-1332  
 Contact: Darrell Welch  
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 T: (800)207-6618  
 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)