

Area  
**[1233915]**  
 Machine Id  
**401212**  
 Component  
**Diesel 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>GFL0110664</b>	GFL0102702	---
Sample Date		Client Info		<b>28 Feb 2024</b>	28 Dec 2023	---
Machine Age	hrs	Client Info		<b>16878</b>	16461	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	N/A	---
Filter Changed		Client Info		<b>Changed</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>6</b>	15	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	---
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	1	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---

**CONTAMINATION**

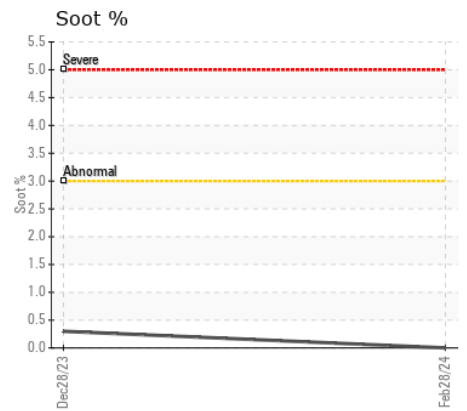
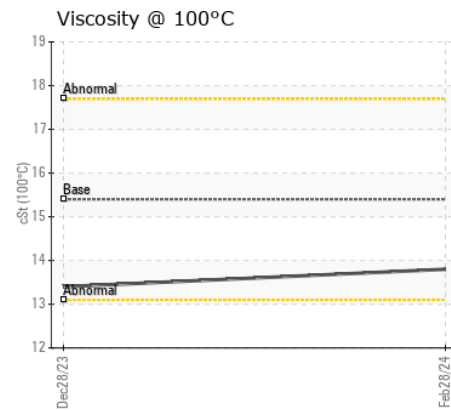
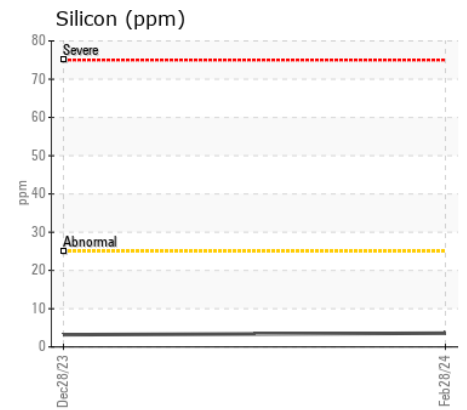
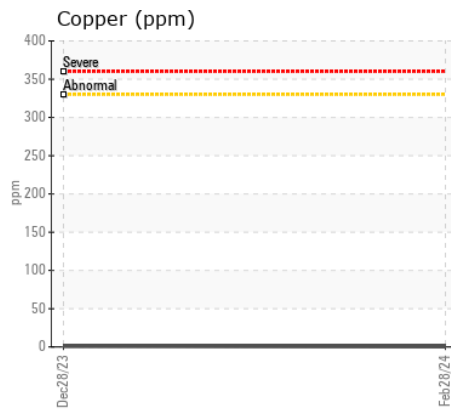
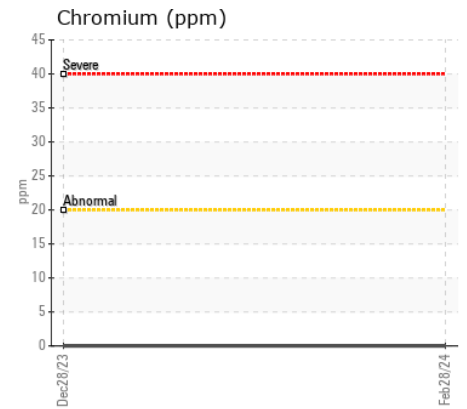
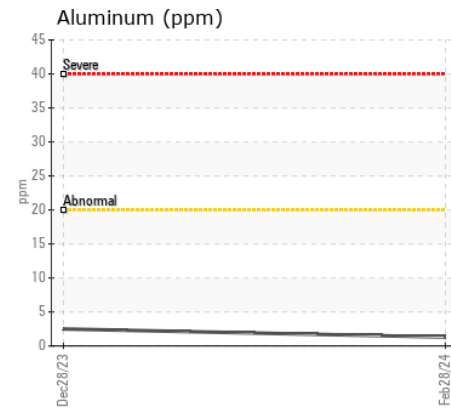
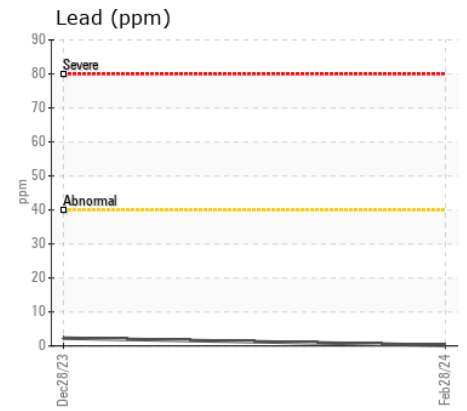
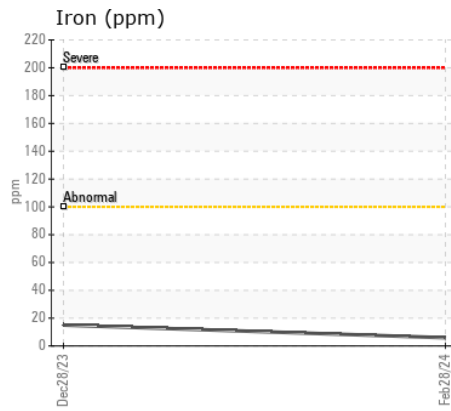
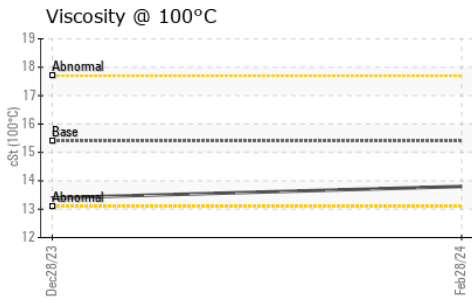
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	3	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.4</b>	9.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.3</b>	22.4	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>3</b>	6	---
Boron	ppm	ASTM D5185(m)	0	<b>4</b>	2	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>59</b>	59	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>966</b>	964	---
Calcium	ppm	ASTM D5185(m)	1070	<b>1053</b>	1062	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>999</b>	968	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1182</b>	1184	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>2631</b>	2304	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>15.8</b>	20.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.8</b>	13.4	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0110664  
**Lab Number** : 02619851  
**Unique Number** : 5736961  
**Test Package** : MOB 1  
**Received** : 05 Mar 2024  
**Tested** : 05 Mar 2024  
**Diagnosed** : 05 Mar 2024 - Wes Davis

**GFL Environmental - 207 - Pickering SW**  
 1034 TOY AVENUE, PICKERING YARD  
 PICKERING, ON  
 CA L1W 3P1  
 Contact: Ian Patton  
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 T: (905)831-6297  
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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.