



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



Machine Id  
**815005**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- GAL)**

**RECOMMENDATION**

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time. ( Customer Sample Comment: Unknown fluid age )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0095028</b>	---	---
Sample Date		Client Info		<b>04 Nov 2023</b>	---	---
Machine Age	hrs	Client Info		<b>16439</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>63</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>5</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>5</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>1</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---

**CONTAMINATION**

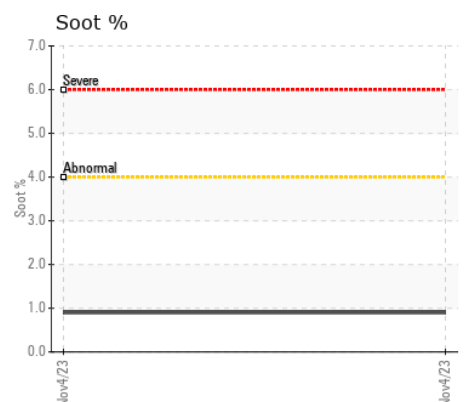
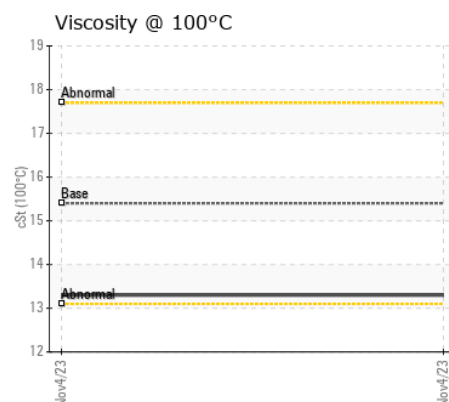
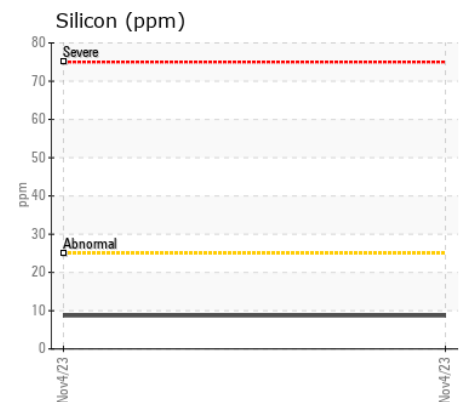
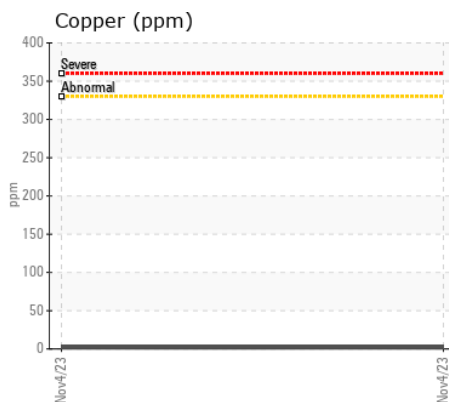
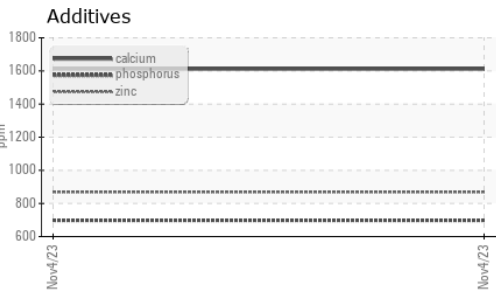
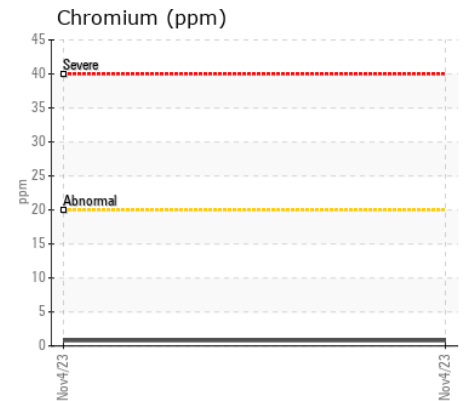
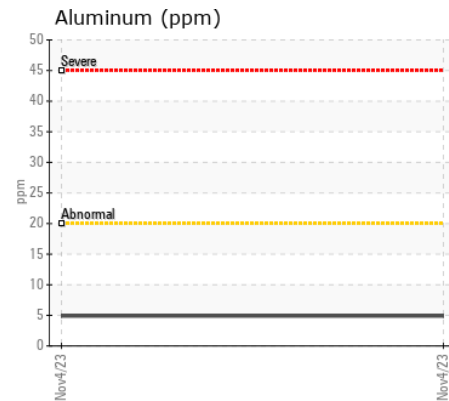
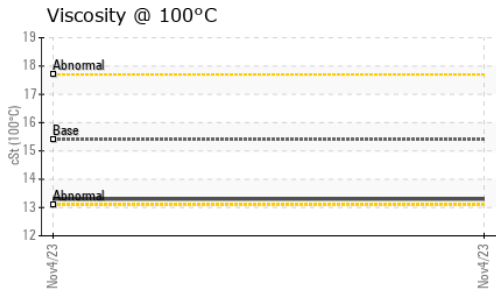
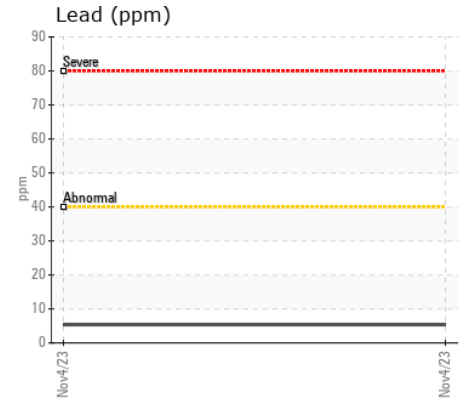
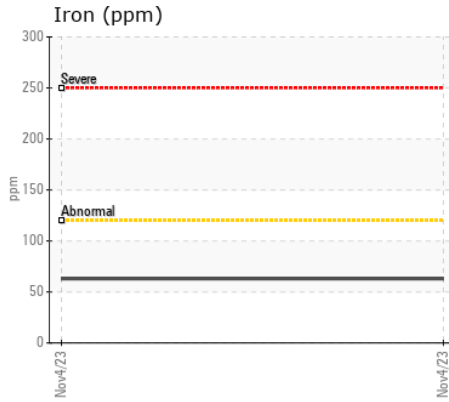
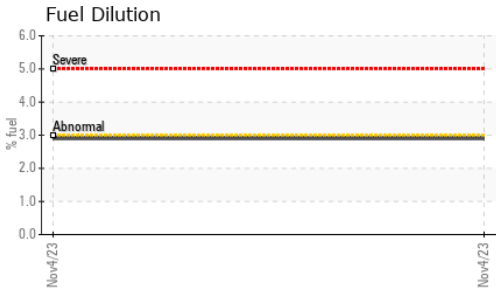
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>9</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	---	---
Fuel	%	ASTM D7593*	>3.0	<b>2.9</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	ASTM D7844*	>4	<b>0.9</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>17.0</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>31.8</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---

**FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>10</b>	---	---
Boron	ppm	ASTM D5185(m)	0	<b>25</b>	---	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>44</b>	---	---
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>492</b>	---	---
Calcium	ppm	ASTM D5185(m)	1070	<b>1612</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>698</b>	---	---
Zinc	ppm	ASTM D5185(m)	1270	<b>869</b>	---	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>1826</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>41.3</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.3</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 577 - First Class**  
**Sample No.** : GFL0095028 **Received** : 03 Jan 2024  
**Lab Number** : 02606223 **Diagnosed** : 05 Jan 2024  
**Unique Number** : 5707309 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: FUELDILUTION, PercentFuel )

8540 Chilliwack Mountain Rd,  
 Chilliwack, BC  
 CA V2R 3W8  
 Contact: Derek Jessop  
 djessop@gflenv.com  
 T: (604)798-5301  
 F:

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.