



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



Area  
**GFL216**  
Machine Id  
**401201**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (--- LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0110259</b>	GFL0087414	GFL0080267
Sample Date		Client Info		<b>21 Jan 2024</b>	20 Jun 2023	01 May 2023
Machine Age	hrs	Client Info		<b>21482</b>	404722	383851
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>5</b>	13	5
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	12	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	4	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

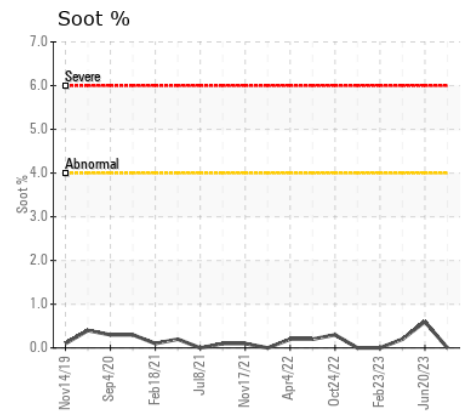
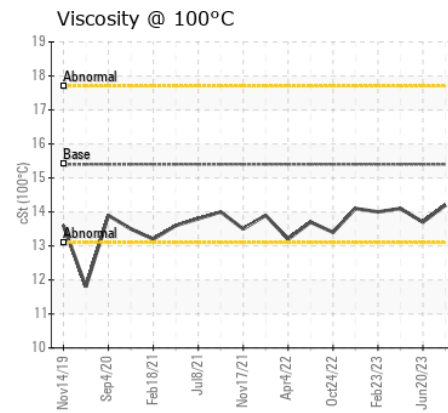
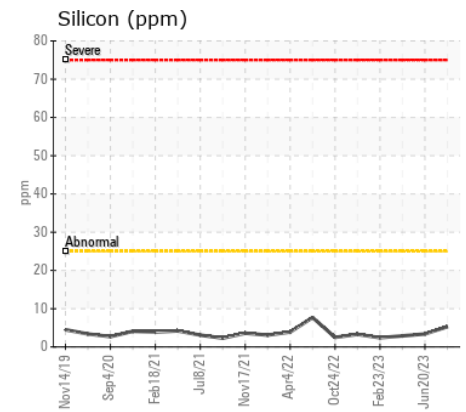
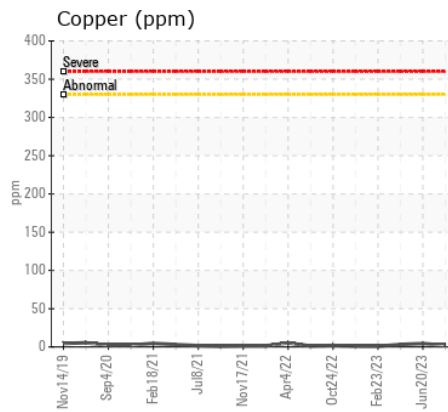
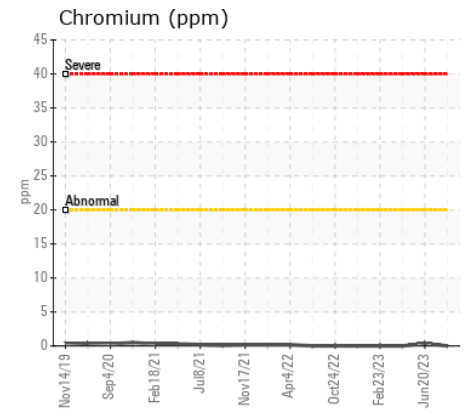
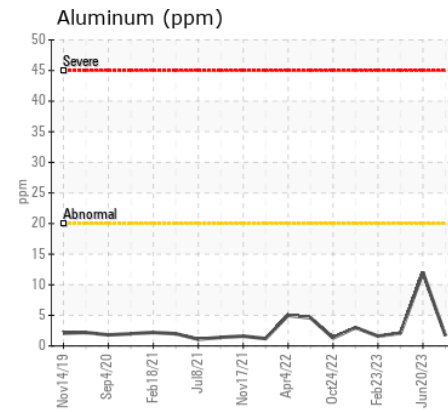
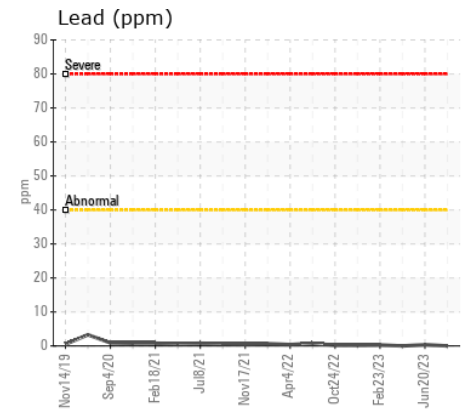
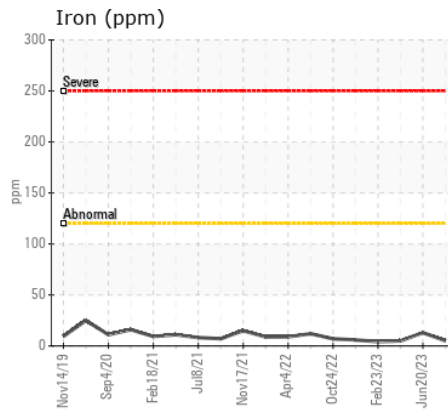
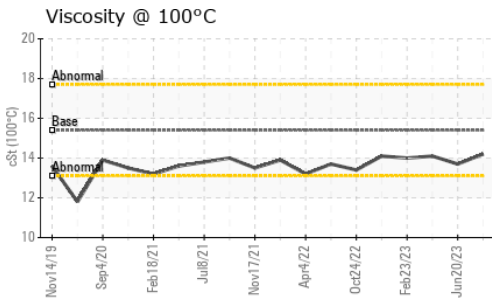
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	33	2
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>4	<b>0</b>	0.6	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.9</b>	11.2	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.7</b>	22.1	18.8
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>2</b>	5	4
Boron	ppm	ASTM D5185(m)	0	<b>14</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>61</b>	59	59
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>815</b>	928	951
Calcium	ppm	ASTM D5185(m)	1070	<b>1180</b>	1011	1063
Phosphorus	ppm	ASTM D5185(m)	1150	<b>999</b>	947	1078
Zinc	ppm	ASTM D5185(m)	1270	<b>1142</b>	1164	1163
Sulfur	ppm	ASTM D5185(m)	2060	<b>2828</b>	2425	2616
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.1</b>	17.2	15.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.2</b>	13.7	14.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 252 - GTA Hauling**  
**Sample No.** : GFL0110259 **Received** : 24 Jan 2024 3668 Weston Road  
**Lab Number** : 02610854 **Diagnosed** : 24 Jan 2024 North York, ON  
**Unique Number** : 5719949 **Diagnostician** : Wes Davis CA M9L 1W2  
**Test Package** : MOB 1

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.

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