



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



Area  
**GFL216**  
Machine Id  
**401081**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (32 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0108428</b>	GFL0074280	GFL0061131
Sample Date		Client Info		<b>17 Jan 2024</b>	02 Mar 2023	14 Oct 2022
Machine Age	hrs	Client Info		<b>32490</b>	30643	30053
Oil Age	hrs	Client Info		<b>0</b>	590	439
Filter Age	hrs	Client Info		<b>0</b>	590	439
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	MARGINAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	<b>29</b>	25	14
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	1
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	2	2
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	4	1
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

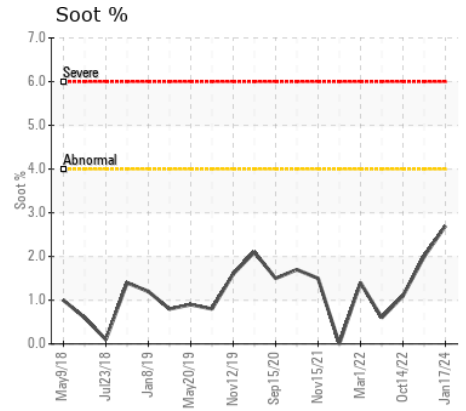
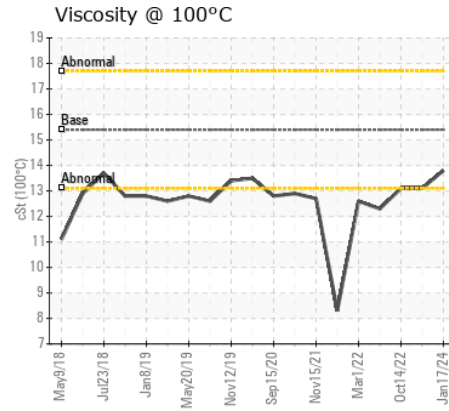
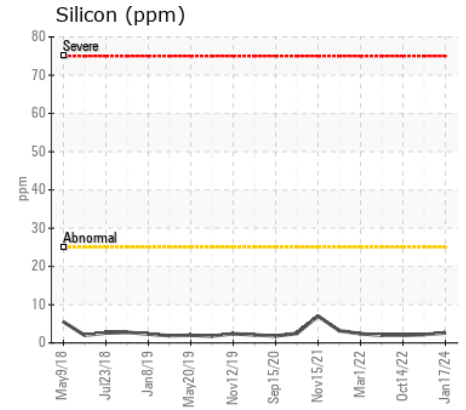
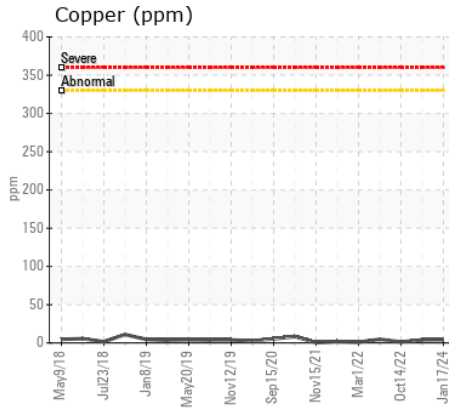
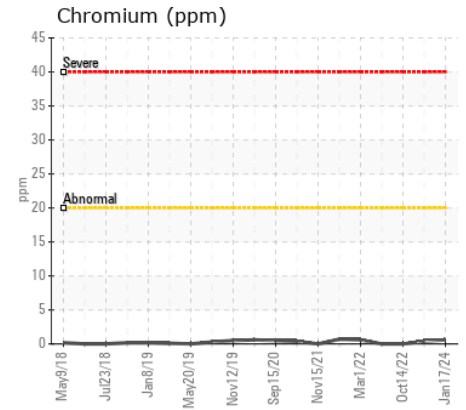
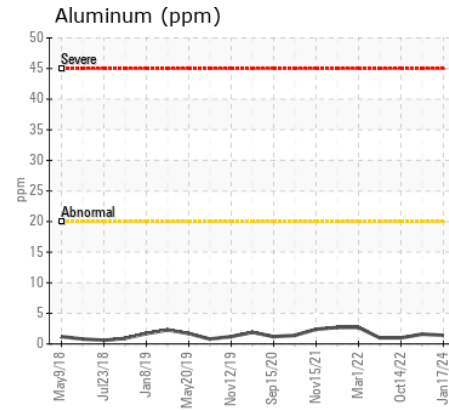
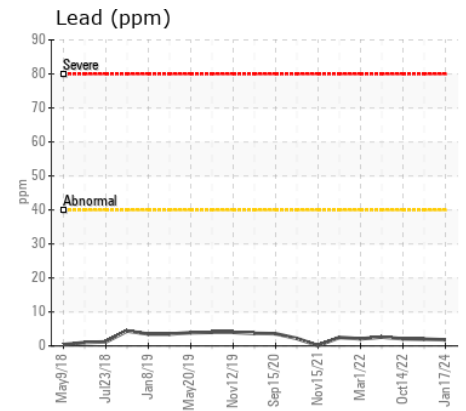
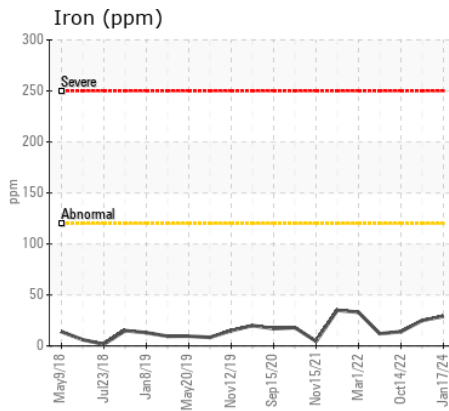
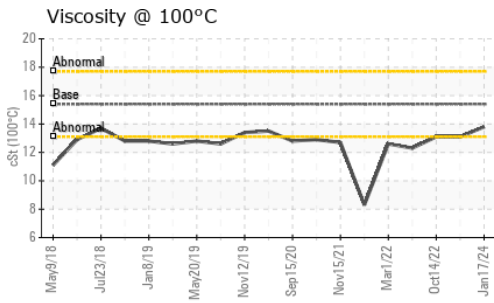
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	0	<1
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	▲ 4.4	▲ 4.4
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>4	<b>2.7</b>	2	1.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.2</b>	8.3	6.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.2</b>	23.6	20.5
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>1</b>	1	1
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	4	5
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>58</b>	57	55
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>932</b>	921	903
Calcium	ppm	ASTM D5185(m)	1070	<b>1039</b>	1073	1025
Phosphorus	ppm	ASTM D5185(m)	1150	<b>974</b>	1037	1009
Zinc	ppm	ASTM D5185(m)	1270	<b>1144</b>	1141	1119
Sulfur	ppm	ASTM D5185(m)	2060	<b>2572</b>	2487	2483
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.8</b>	14.5	13.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.8</b>	13.1	13.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 252 - GTA Hauling**  
**Sample No.** : GFL0108428 **Received** : 22 Jan 2024 **3668 Weston Road**  
**Lab Number** : 02610122 **Diagnosed** : 22 Jan 2024 **North York, ON**  
**Unique Number** : 5711208 **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.

Contact: Amanda Cipollone  
 acipollone@gflenv.com  
 T:  
 F: