



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

Machine Id  
**501033**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0100827</b>	GFL0100869	GFL0056141
Sample Date		Client Info		<b>14 Jan 2024</b>	01 Dec 2023	14 Dec 2022
Machine Age	hrs	Client Info		<b>50931</b>	37346	20093
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)	>100	<b>13</b>	23	24
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>10</b>	8	9
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	1	1
Copper	ppm	ASTM D5185(m)	>330	<b>5</b>	15	53
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

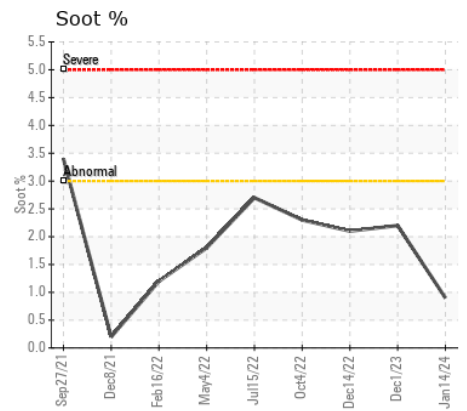
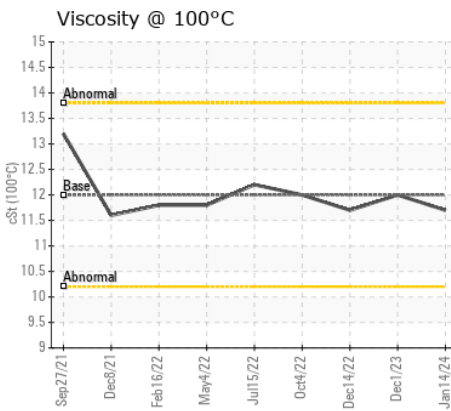
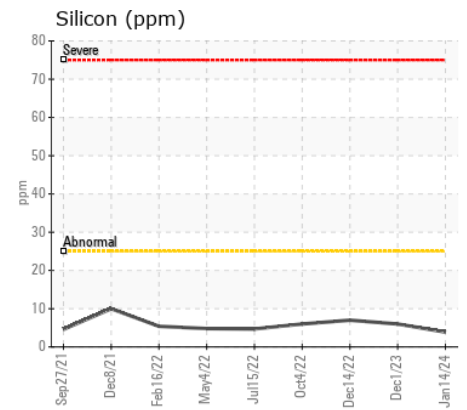
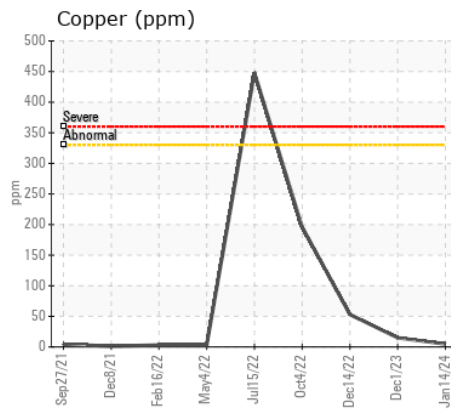
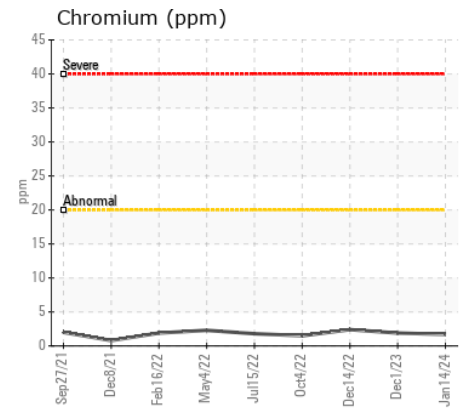
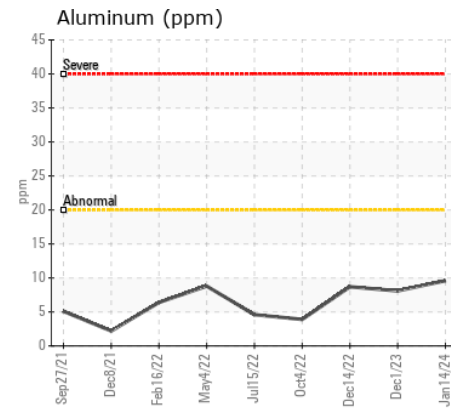
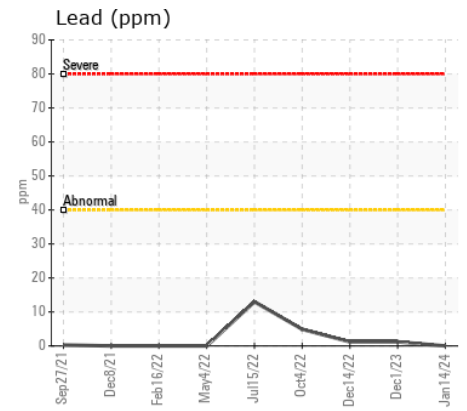
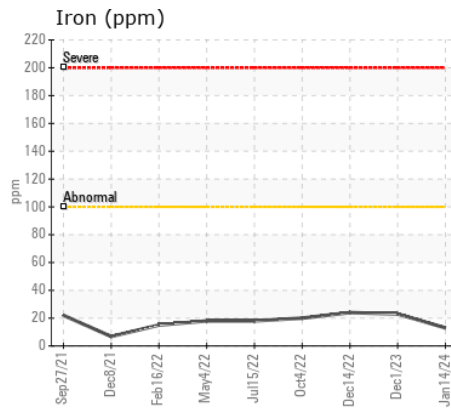
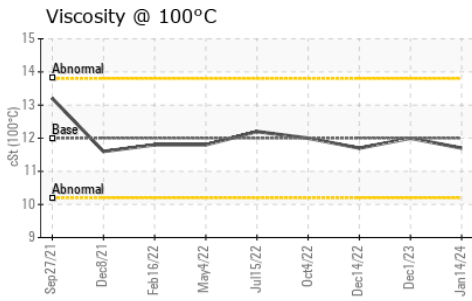
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	6	7
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	4	2
Fuel		WC Method	>5	<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*	>3	<b>0.9</b>	2.2	2.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.7</b>	9.7	10.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.0</b>	23.0	24.8
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>	2	2
Boron	ppm	ASTM D5185(m)	2	<b>1</b>	2	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	<b>60</b>	62	62
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	950	<b>983</b>	999	996
Calcium	ppm	ASTM D5185(m)	1050	<b>1078</b>	1098	1175
Phosphorus	ppm	ASTM D5185(m)	995	<b>1016</b>	972	991
Zinc	ppm	ASTM D5185(m)	1180	<b>1176</b>	1187	1188
Sulfur	ppm	ASTM D5185(m)	2600	<b>2641</b>	2322	1883
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.7</b>	15.6	18.1
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	<b>11.7</b>	12.0	11.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0100827  
**Lab Number** : 02619872  
**Unique Number** : 5736982  
**Test Package** : MOB 1  
**Received** : 05 Mar 2024  
**Tested** : 05 Mar 2024  
**Diagnosed** : 05 Mar 2024 - Wes Davis

**GFL Environmental - 520 - Winterburn**  
 20204 - 113 Avenue,  
 Edmonton, AB  
 CA T5S 0G3  
 Contact: Jaekyung Ko  
 jko@gflenv.com  
 T: (780)444-8805  
 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.