



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



Area  
**GFL207 [1233126]**  
Machine Id  
**816004**  
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>GFL0102741</b>	GFL0102686	GFL0089000
Sample Date		Client Info		<b>27 Feb 2024</b>	04 Dec 2023	06 Sep 2023
Machine Age	hrs	Client Info		<b>0</b>	18239	17639
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>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	<b>18</b>	25	32
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	<b>3</b>	5	4
Lead	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

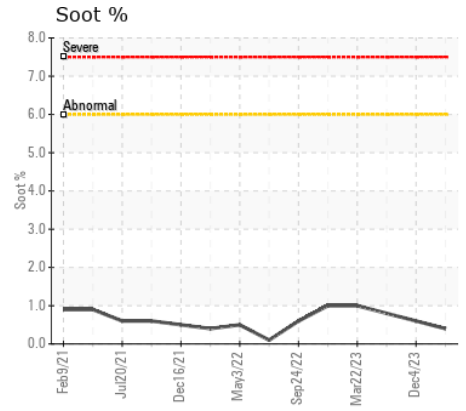
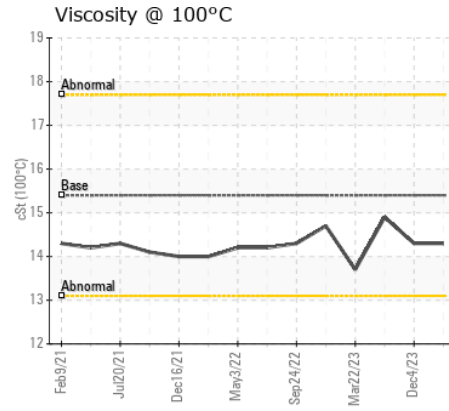
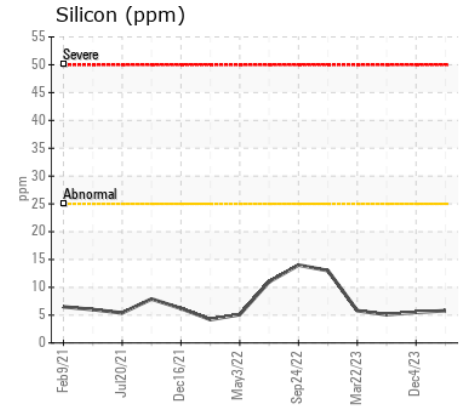
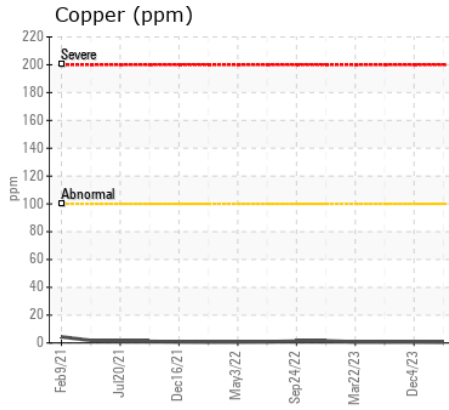
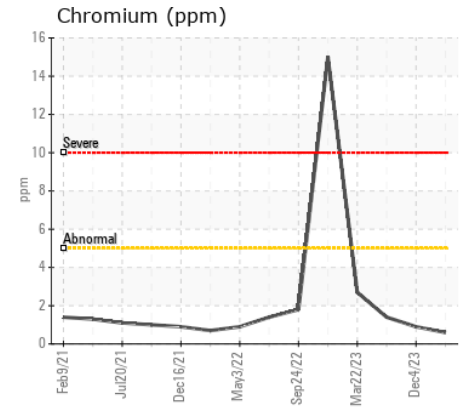
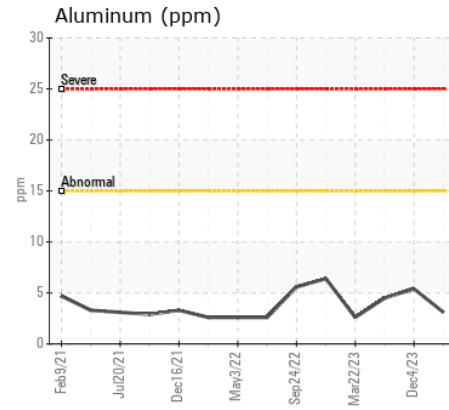
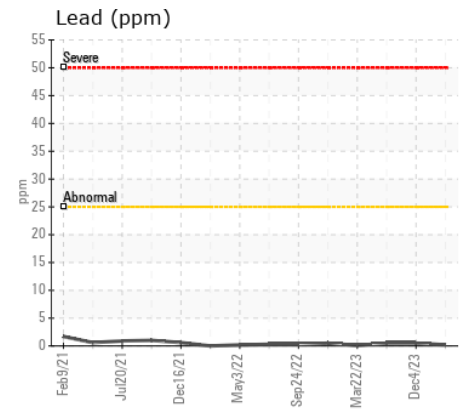
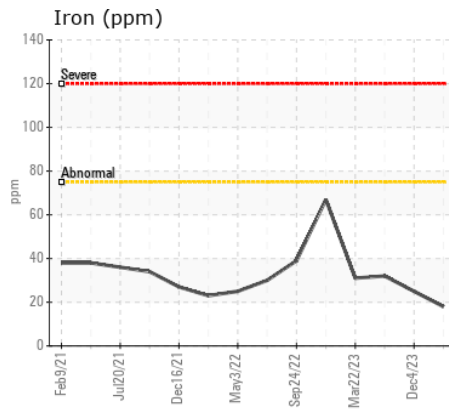
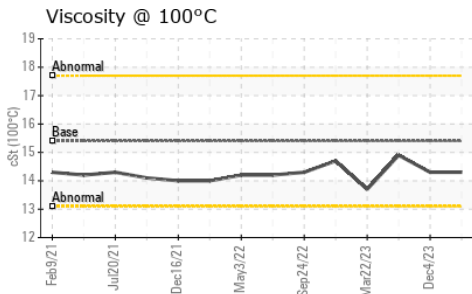
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	6	5
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	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*	>6	<b>0.4</b>	0.6	0.8
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.8</b>	9.9	11.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.9</b>	21.6	23.1
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>5</b>	7	8
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	2	4
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	60	60
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>979</b>	998	973
Calcium	ppm	ASTM D5185(m)	1070	<b>1079</b>	1097	1035
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1023</b>	1000	1052
Zinc	ppm	ASTM D5185(m)	1270	<b>1207</b>	1233	1200
Sulfur	ppm	ASTM D5185(m)	2060	<b>2611</b>	2457	2447
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.3</b>	18.8	21.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.3</b>	14.3	14.9



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0102741  
**Lab Number** : 02618846  
**Unique Number** : 5735956  
**Test Package** : MOB 1  
**Received** : 29 Feb 2024  
**Tested** : 29 Feb 2024  
**Diagnosed** : 29 Feb 2024 - Wes Davis

**GFL Environmental - 227 - Pickering MTCE**  
 1034 Toy Ave  
 Pickering, ON  
 CA L1W 3P1  
 Contact: Maintenance

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.

T:  
F: