



Area  
**GFL207**  
Machine Id  
**800014**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (20 LTR)**

**RECOMMENDATION**

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0118527</b>	GFL0110659	GFL0102698
Sample Date		Client Info		<b>13 May 2024</b>	06 Mar 2024	27 Dec 2023
Machine Age	hrs	Client Info		<b>19065</b>	18461	17881
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>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>ATTENTION</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	<b>25</b>	23	27
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<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)	>15	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>100	<b>2</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**

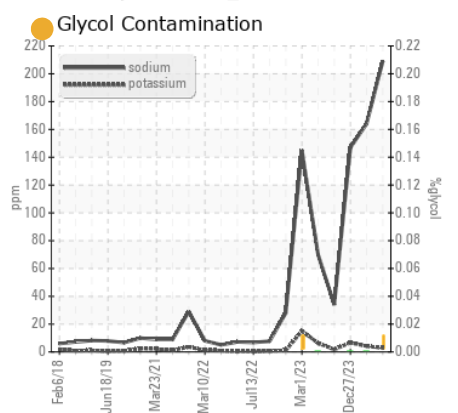
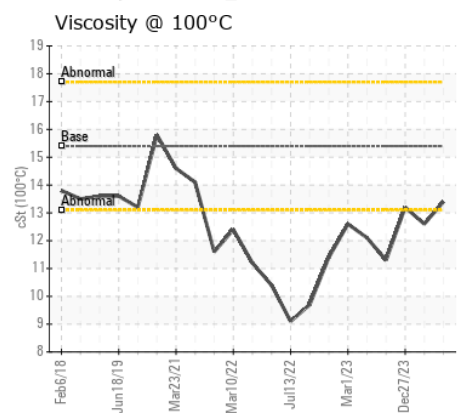
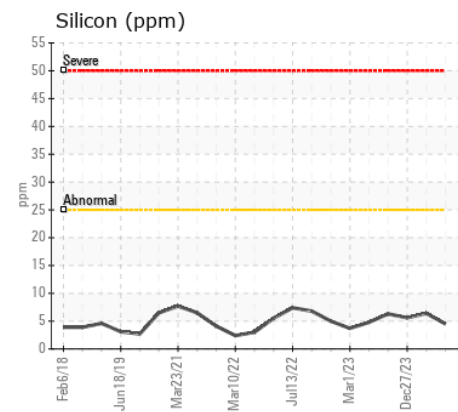
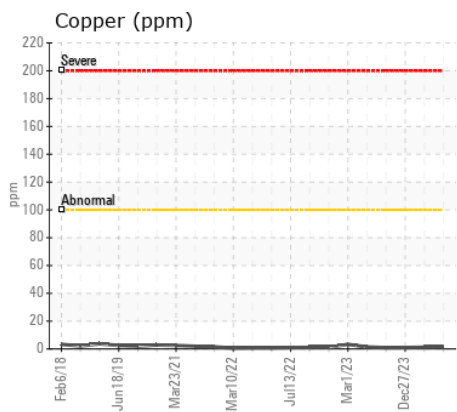
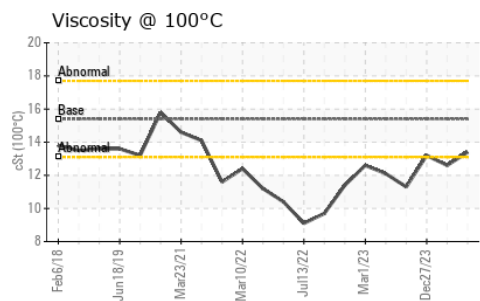
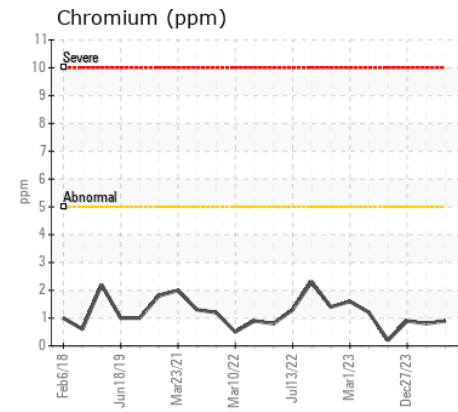
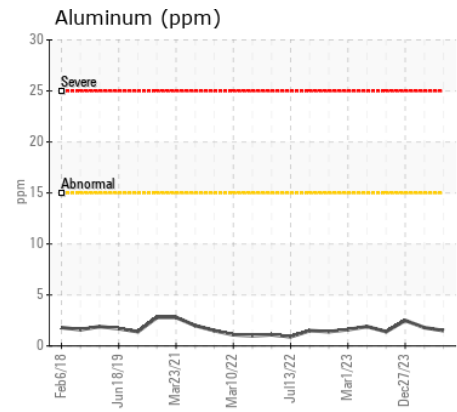
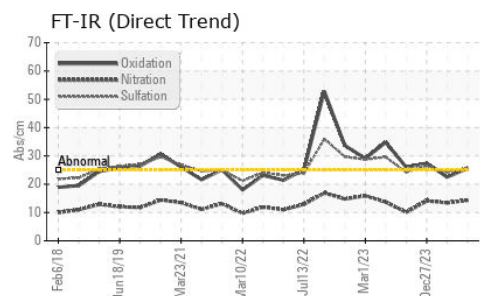
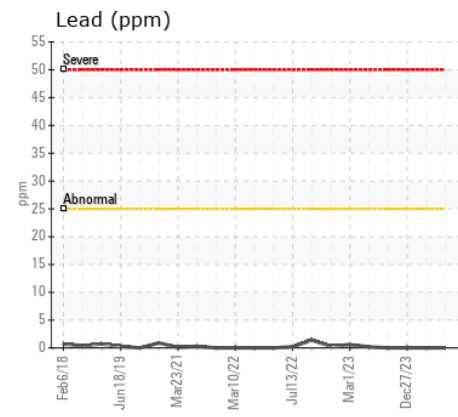
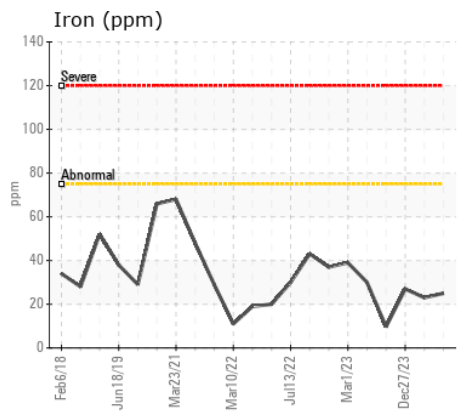
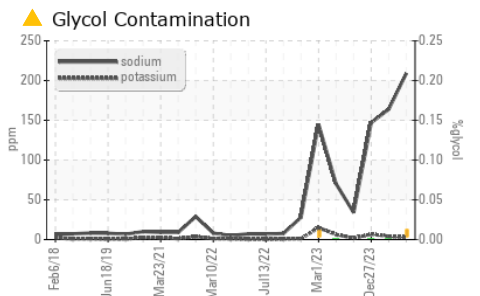
Test for glycol is positive. There is a light concentration of glycol present in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	6	6
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	4	7
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	%	ASTM D7922*		<b>▲ 0.012</b>	0.0	0.0
Soot %	%	ASTM D7844*	>6	<b>0.6</b>	0.6	0.7
Nitration	Abs/cm	ASTM D7624*	>20	<b>14.3</b>	13.4	14.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.7</b>	24.2	26.5
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. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		<b>● 209</b>	● 164	147
Boron	ppm	ASTM D5185(m)	0	<b>1</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>79</b>	73	67
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>823</b>	811	807
Calcium	ppm	ASTM D5185(m)	1070	<b>899</b>	929	1051
Phosphorus	ppm	ASTM D5185(m)	1150	<b>820</b>	845	827
Zinc	ppm	ASTM D5185(m)	1270	<b>1017</b>	1022	1029
Sulfur	ppm	ASTM D5185(m)	2060	<b>2054</b>	2239	2278
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>25.6</b>	22.5	27.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.4</b>	▲ 12.6	13.2



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0118527  
**Lab Number** : 02635580  
**Unique Number** : 5776733  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

**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.

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F: