



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



Area  
**GFL207**  
Machine Id  
**800007**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (20 LTR)**

**RECOMMENDATION**

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>GFL0118517</b>	GFL0110704	GFL0094535
Sample Date		Client Info		<b>30 Apr 2024</b>	23 Jan 2024	13 Nov 2023
Machine Age	hrs	Client Info		<b>15224</b>	14689	14101
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	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	<b>35</b>	37	26
Chromium	ppm	ASTM D5185(m)	>5	<b>1</b>	2	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	<1
Aluminum	ppm	ASTM D5185(m)	>15	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>25	<b>0</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**

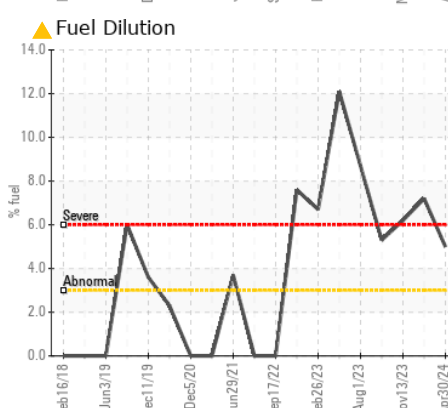
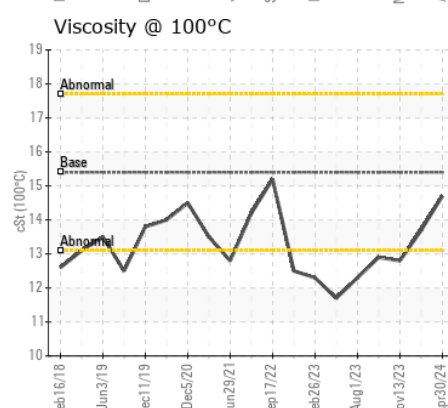
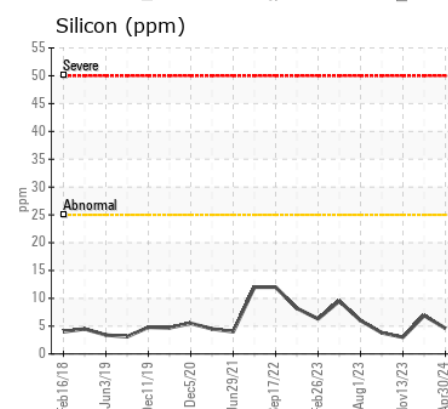
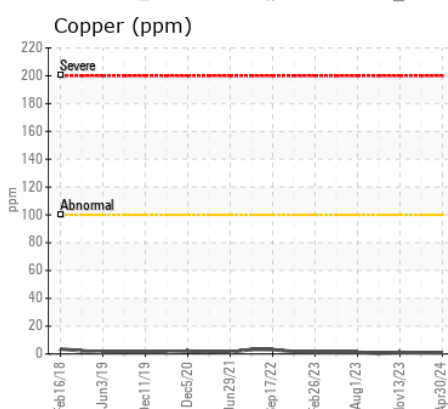
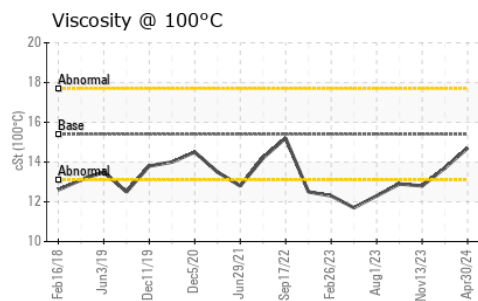
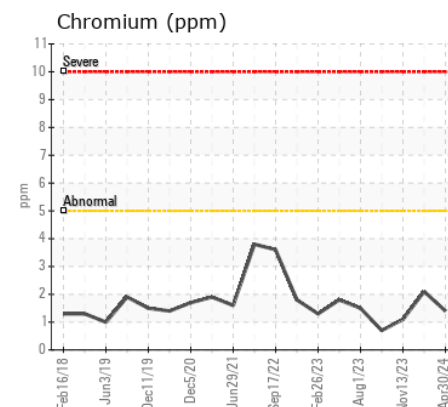
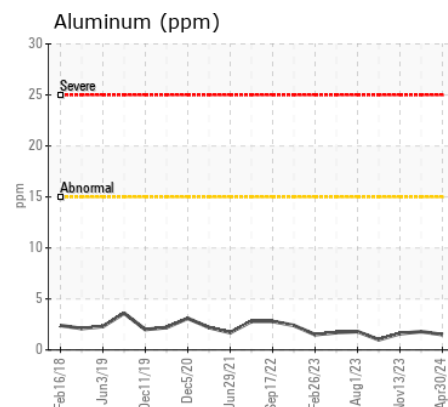
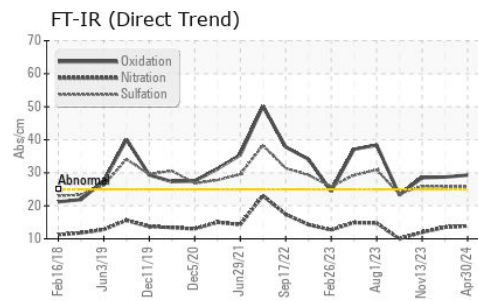
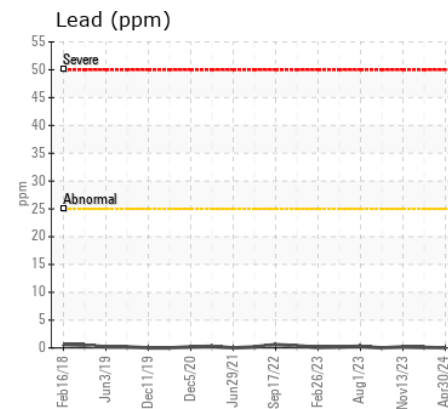
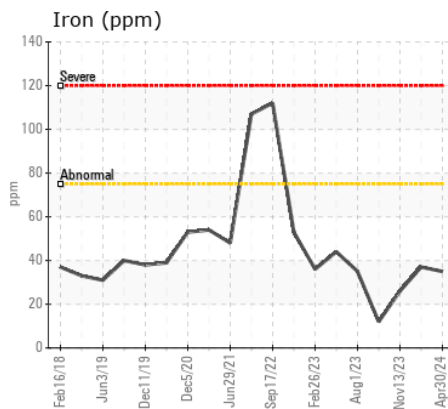
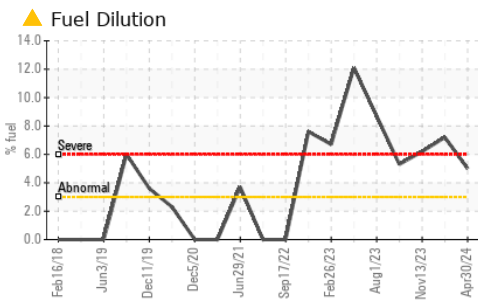
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	7	3
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	1	0
Fuel	%	ASTM D7593*	>3.0	<b>▲ 5</b>	▲ 7.2	▲ 6.2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>0.5</b>	0.5	0.5
Nitration	Abs/cm	ASTM D7624*	>20	<b>13.9</b>	13.5	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.8</b>	25.8	25.9
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		<b>10</b>	7	8
Boron	ppm	ASTM D5185(m)	0	<b>3</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>57</b>	55	53
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>937</b>	895	892
Calcium	ppm	ASTM D5185(m)	1070	<b>993</b>	1015	981
Phosphorus	ppm	ASTM D5185(m)	1150	<b>942</b>	935	923
Zinc	ppm	ASTM D5185(m)	1270	<b>1129</b>	1106	1104
Sulfur	ppm	ASTM D5185(m)	2060	<b>2184</b>	2336	2217
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>29.3</b>	28.7	28.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.7</b>	13.7	12.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0118517  
**Lab Number** : 02632722  
**Unique Number** : 5773875  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel )

**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: