



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



Area  
**GFL207 [1272072]**  
Machine Id  
**800028**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (32 LTR)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0118516</b>	GFL0110700	GFL0102709
Sample Date		Client Info		<b>06 May 2024</b>	10 Apr 2024	05 Jan 2024
Machine Age	hrs	Client Info		<b>20331</b>	12105	11580
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	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	SEVERE	SEVERE

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	<b>29</b>	31	27
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	2	1
Nickel	ppm	ASTM D5185(m)	>4	<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)	>15	<b>2</b>	4	3
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	0	<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**

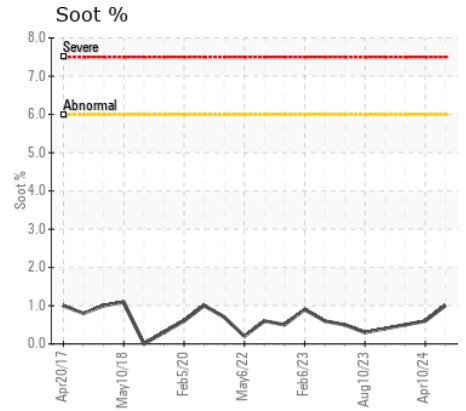
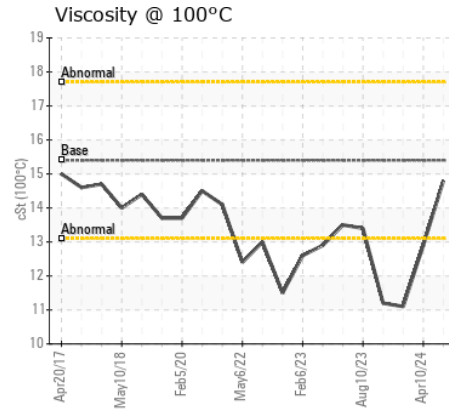
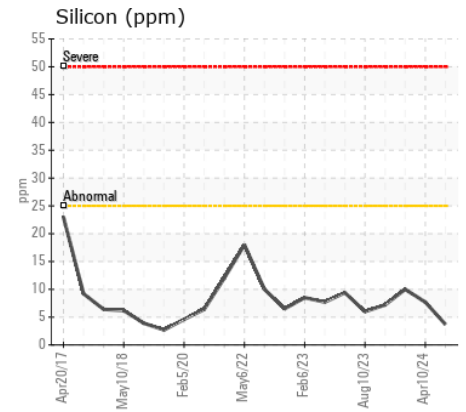
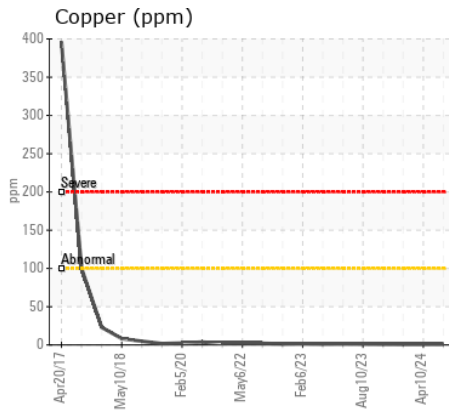
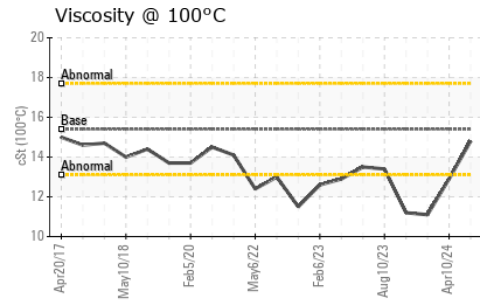
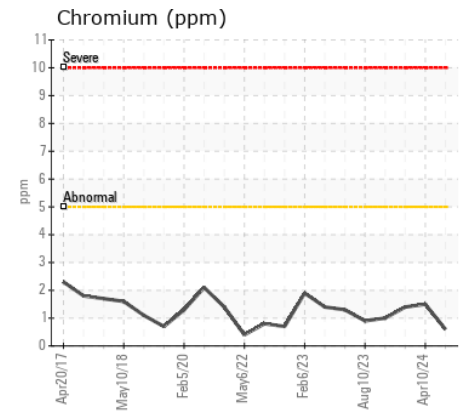
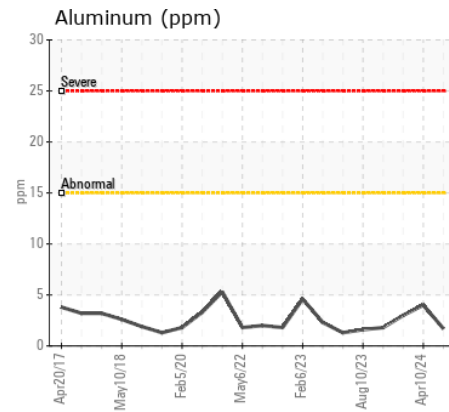
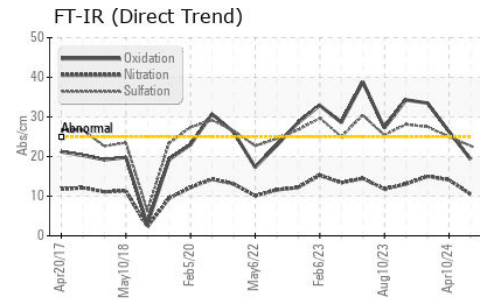
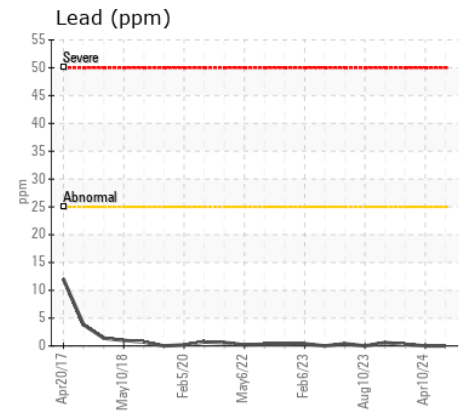
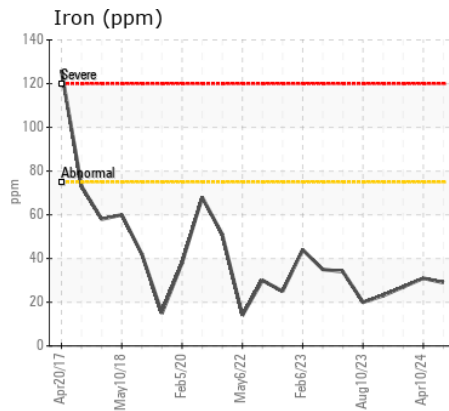
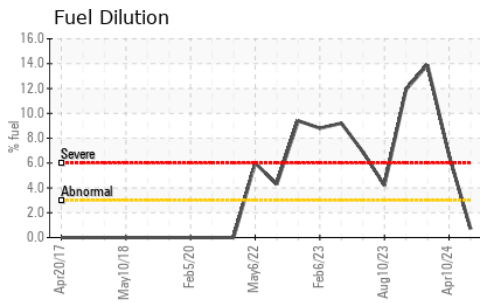
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	8	10
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	5	4
Fuel	%	ASTM D7593*	>3.0	<b>0.7</b>	▲ 6.6	▲ 13.9
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>1</b>	0.6	0.5
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.5</b>	14.1	15.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.7</b>	25.0	27.5
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>10</b>	7	6
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	3	1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>61</b>	55	46
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>1008</b>	892	746
Calcium	ppm	ASTM D5185(m)	1070	<b>1095</b>	971	841
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1020</b>	900	792
Zinc	ppm	ASTM D5185(m)	1270	<b>1242</b>	1084	939
Sulfur	ppm	ASTM D5185(m)	2060	<b>2434</b>	2247	2037
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>19.3</b>	26.3	33.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.8</b>	12.9	▲ 11.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0118516 **Received** : 08 May 2024  
**Lab Number** : 02634071 **Tested** : 09 May 2024  
**Unique Number** : 5775224 **Diagnosed** : 09 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel )

**GFL Environmental - 207 - Pickering SW**  
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 PICKERING, ON  
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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.