



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

Machine Id  
**8423**  
 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>GFL0116857</b>	GFL0110727	GFL0085663
Sample Date		Client Info		<b>09 May 2024</b>	05 Feb 2024	13 Nov 2023
Machine Age	hrs	Client Info		<b>3055</b>	3055	3055
Oil Age	hrs	Client Info		<b>3055</b>	3055	3055
Filter Age	hrs	Client Info		<b>3055</b>	3055	3055
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	SEVERE	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>45</b>	30	24
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

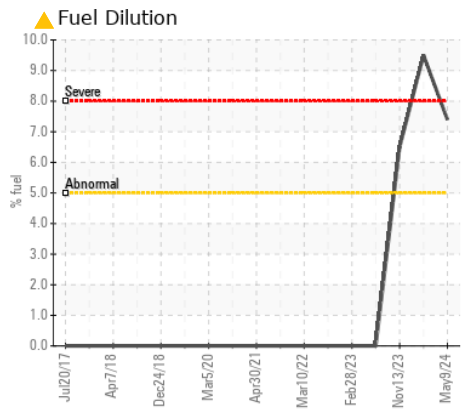
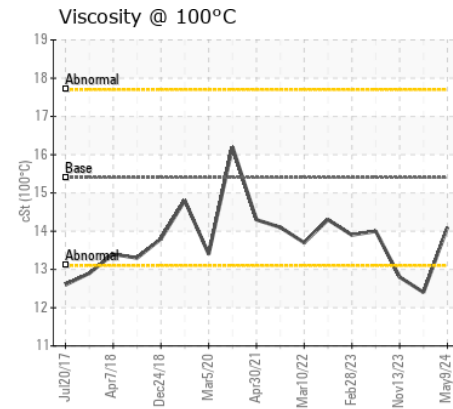
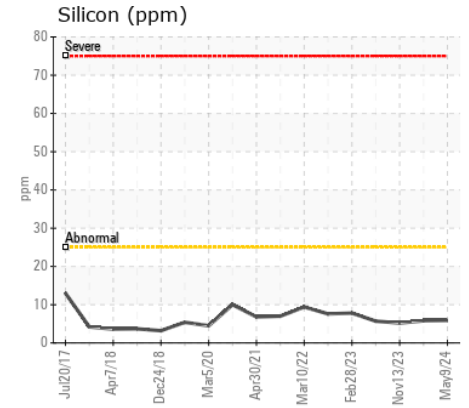
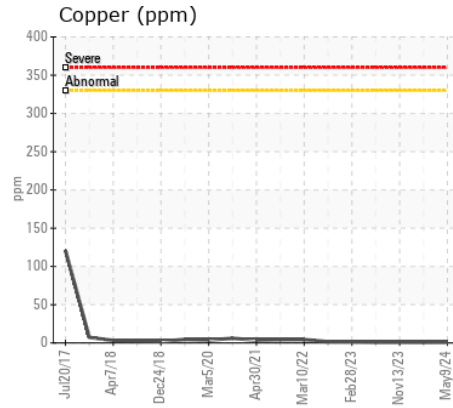
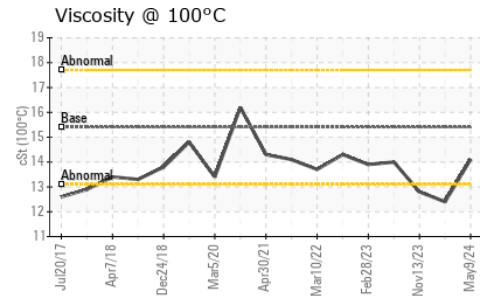
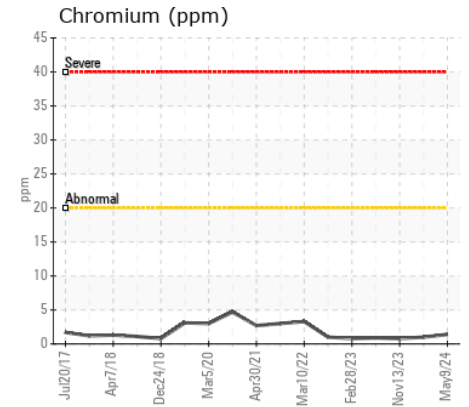
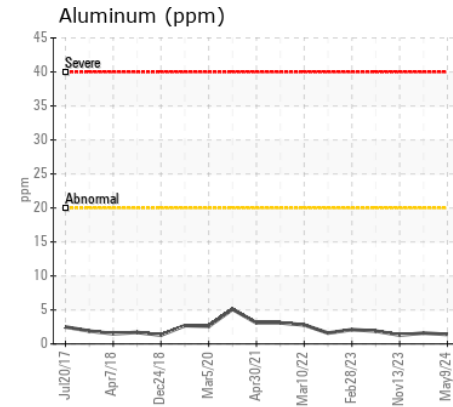
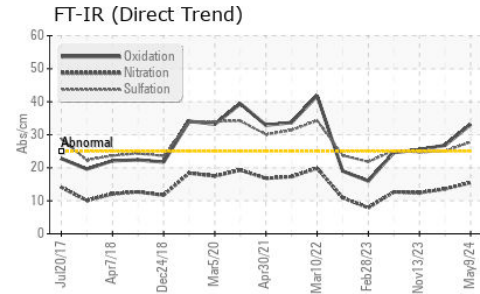
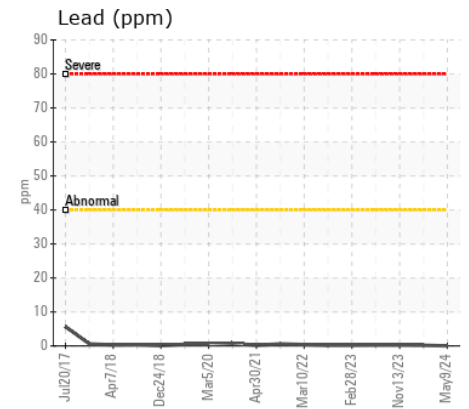
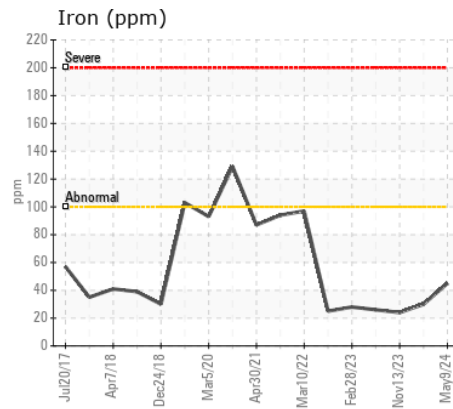
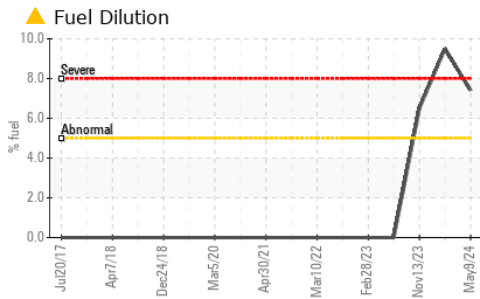
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	6	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	<1
Fuel	%	ASTM D7593*	>5	<b>▲ 7.4</b>	▲ 9.5	▲ 6.5
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.7</b>	0.6	0.5
Nitration	Abs/cm	ASTM D7624*	>20	<b>15.5</b>	13.6	12.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>27.8</b>	25.1	24.7
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>8</b>	5	4
Boron	ppm	ASTM D5185(m)	0	<b>1</b>	2	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>54</b>	51	55
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>867</b>	811	879
Calcium	ppm	ASTM D5185(m)	1070	<b>915</b>	912	979
Phosphorus	ppm	ASTM D5185(m)	1150	<b>872</b>	859	904
Zinc	ppm	ASTM D5185(m)	1270	<b>1061</b>	1012	1110
Sulfur	ppm	ASTM D5185(m)	2060	<b>2048</b>	2184	2221
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>33.1</b>	26.8	25.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.1</b>	▲ 12.4	12.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0116857 **Received** : 13 May 2024  
**Lab Number** : 02634866 **Tested** : 14 May 2024  
**Unique Number** : 5776019 **Diagnosed** : 14 May 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel )

**GFL Environmental - 221 - Windsor**  
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 Windsor, ON  
 CA N8W 4J5  
 Contact: Rhys Marotte  
 rmarotte@gflenv.com

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: