



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

Machine Id  
**124**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON UHP 5W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0078281</b>	PC0078164	PC0077632
Sample Date		Client Info		<b>06 May 2024</b>	20 Feb 2024	07 Nov 2023
Machine Age	kms	Client Info		<b>212253</b>	9513	154012
Oil Age	kms	Client Info		<b>30000</b>	0	30000
Filter Age	kms	Client Info		<b>30000</b>	0	30000
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>12</b>	18	12
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
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)	>20	<b>1</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

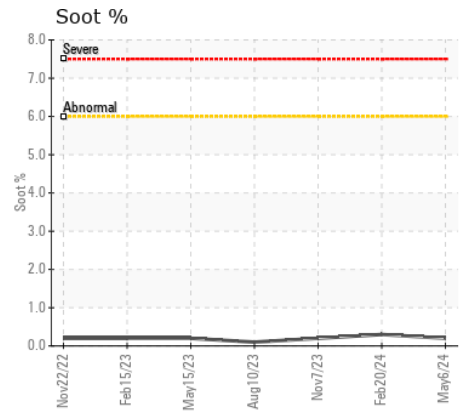
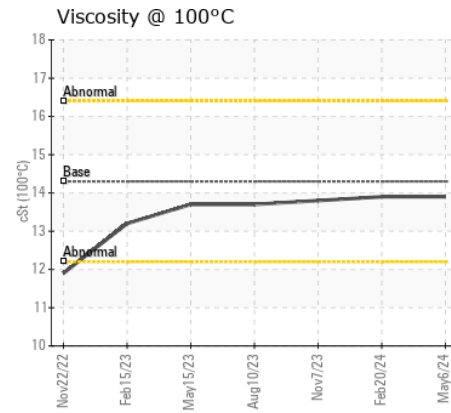
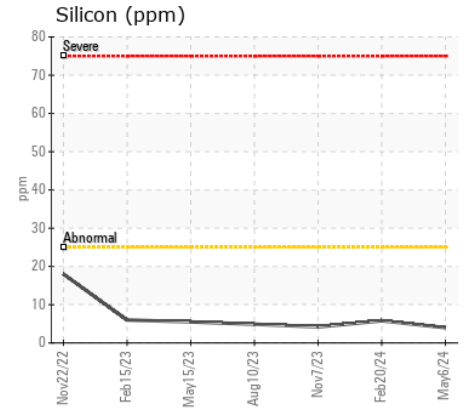
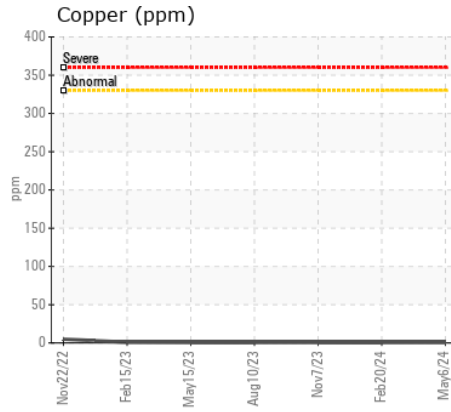
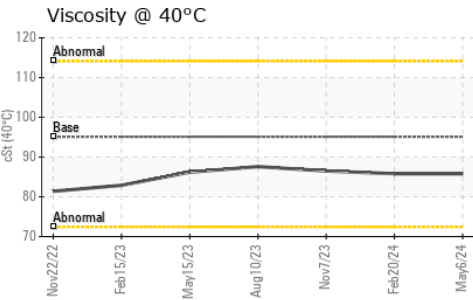
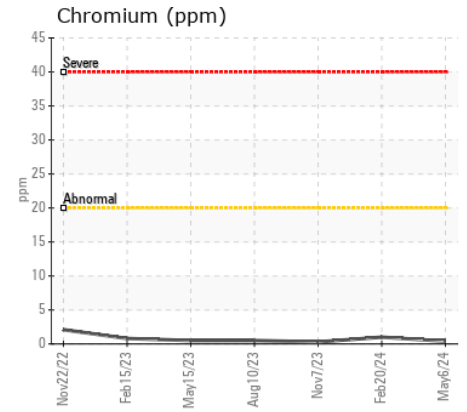
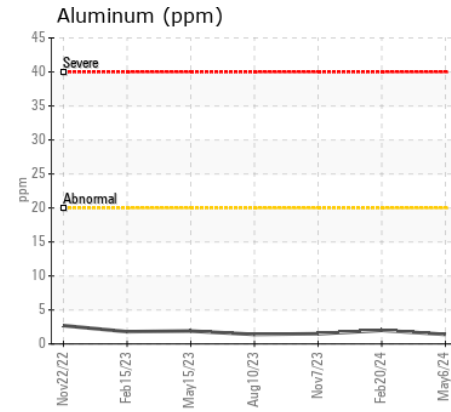
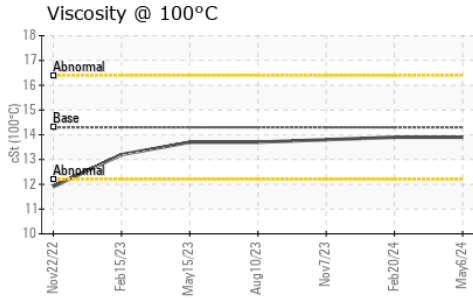
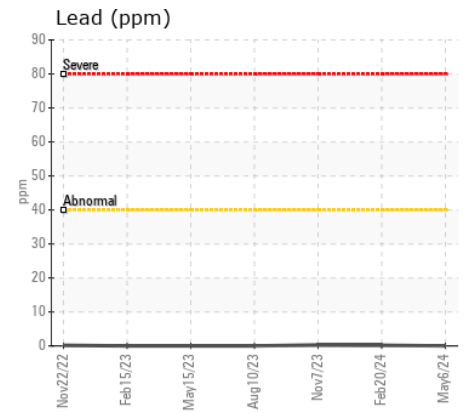
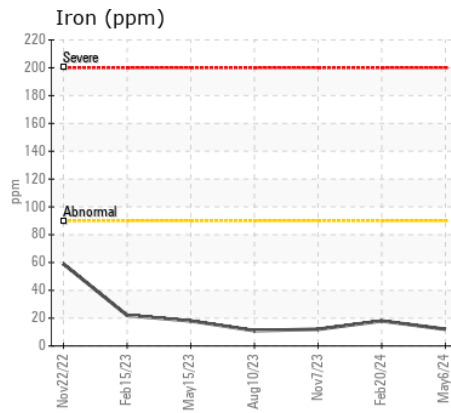
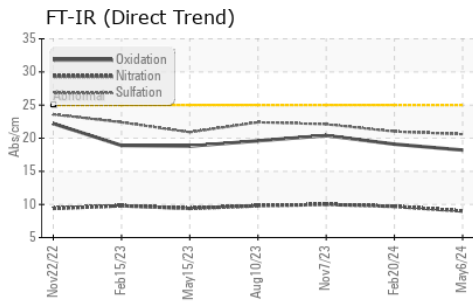
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	6	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
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>0.2</b>	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.0</b>	9.7	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.6</b>	21.0	22.1
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>4</b>	4	4
Boron	ppm	ASTM D5185(m)	65	<b>34</b>	29	21
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	65	<b>60</b>	58	60
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1160	<b>1087</b>	1060	1080
Calcium	ppm	ASTM D5185(m)	820	<b>856</b>	859	824
Phosphorus	ppm	ASTM D5185(m)	1160	<b>984</b>	996	939
Zinc	ppm	ASTM D5185(m)	1260	<b>1187</b>	1176	1165
Sulfur	ppm	ASTM D5185(m)	3000	<b>2690</b>	2869	2594
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.2</b>	19.1	20.4
Visc @ 40°C	cSt	ASTM D7279(m)	95.1	<b>85.8</b>	85.8	86.5
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>13.9</b>	13.9	13.8
Viscosity Index (VI)	Scale	ASTM D2270*	169	<b>166</b>	166	163



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0078281 **Received** : 13 May 2024  
**Lab Number** : 02634882 **Tested** : 13 May 2024  
**Unique Number** : 5776035 **Diagnosed** : 13 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**BEAVER BUS LINES**  
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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.