

Machine Id  
**1419**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (24 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0081940</b>	PC0081594	PC0080277
Sample Date		Client Info		<b>09 May 2024</b>	27 Feb 2024	09 Jan 2024
Machine Age	kms	Client Info		<b>636692</b>	622287	608558
Oil Age	kms	Client Info		<b>14214</b>	13576	11380
Filter Age	kms	Client Info		<b>14214</b>	13576	11380
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>26</b>	50	9
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
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>3</b>	3	5
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>6</b>	5	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

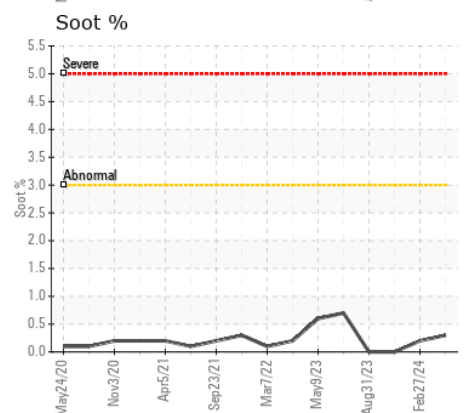
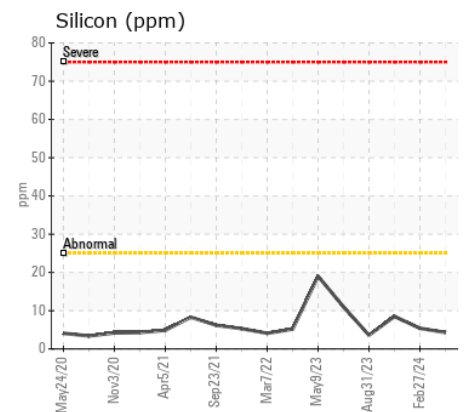
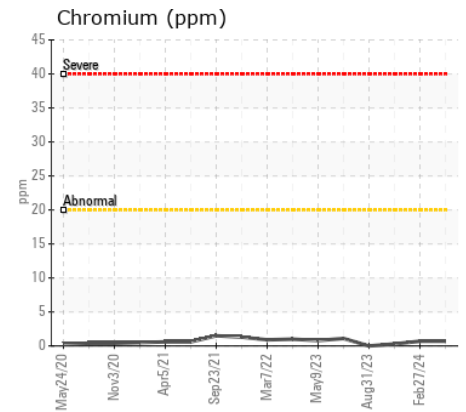
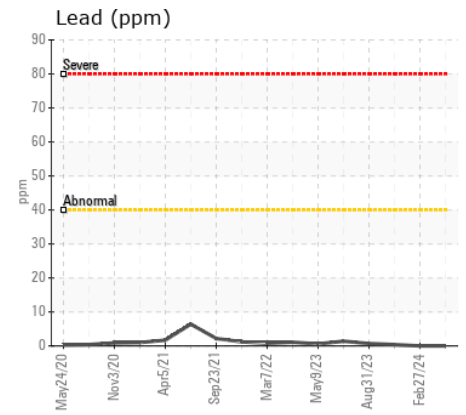
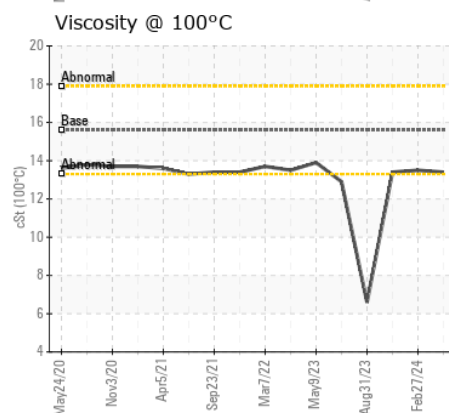
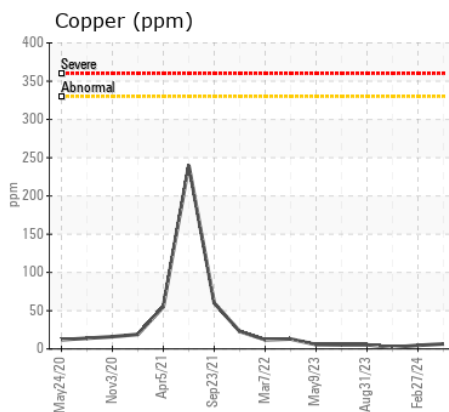
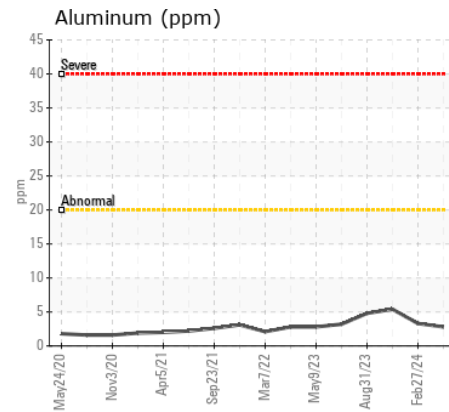
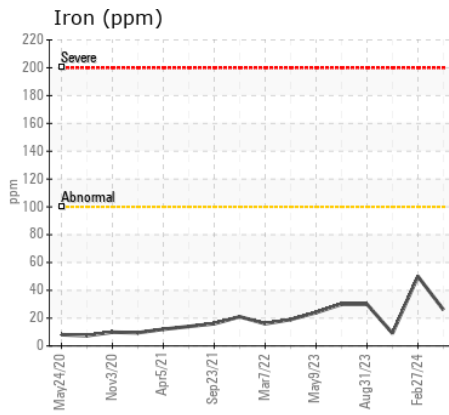
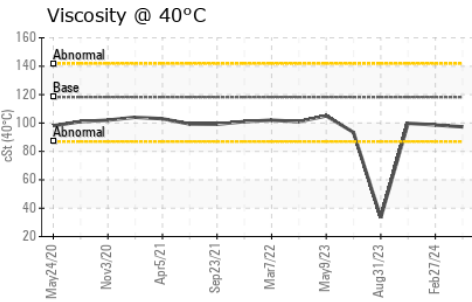
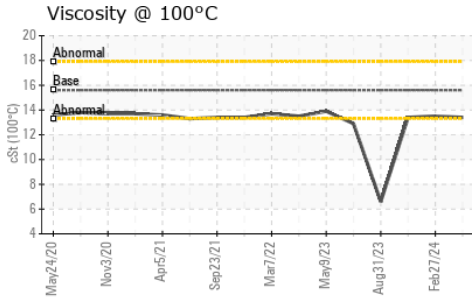
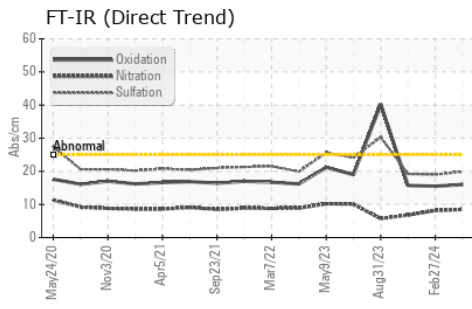
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	5	8
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Fuel		WC Method	>5	<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*	>3	<b>0.3</b>	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.5</b>	8.2	6.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.9</b>	19.0	19.2
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>6</b>	8	5
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	4	22
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>60</b>	59	47
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	1010	<b>989</b>	959	803
Calcium	ppm	ASTM D5185(m)	1070	<b>1099</b>	1151	1104
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1013</b>	962	756
Zinc	ppm	ASTM D5185(m)	1270	<b>1199</b>	1172	872
Sulfur	ppm	ASTM D5185(m)	2060	<b>2440</b>	2494	2128
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.0</b>	15.5	15.7
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	<b>97.3</b>	98.6	99.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.4</b>	13.5	13.4
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>137</b>	136	133



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0081940  
**Lab Number** : 02638332  
**Unique Number** : 5787494  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )  
**Received** : 29 May 2024  
**Tested** : 29 May 2024  
**Diagnosed** : 29 May 2024 - Wes Davis

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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