

Machine Id  
**0150**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0082836</b>	PC0032183	PC0031572
Sample Date		Client Info		<b>29 Dec 2023</b>	25 Sep 2023	28 Jun 2023
Machine Age	kms	Client Info		<b>1100327</b>	1085882	1072703
Oil Age	kms	Client Info		<b>14152</b>	13179	13944
Filter Age	kms	Client Info		<b>14152</b>	13179	13944
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>43</b>	62	59
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	2
Nickel	ppm	ASTM D5185(m)	>4	<b>1</b>	1	2
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	3	7
Lead	ppm	ASTM D5185(m)	>40	<b>6</b>	4	1
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	2	2
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Yellow Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	NONE

**CONTAMINATION**

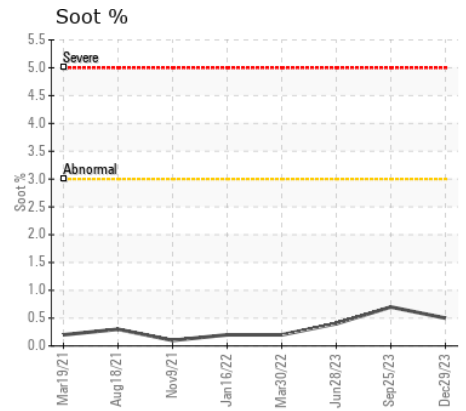
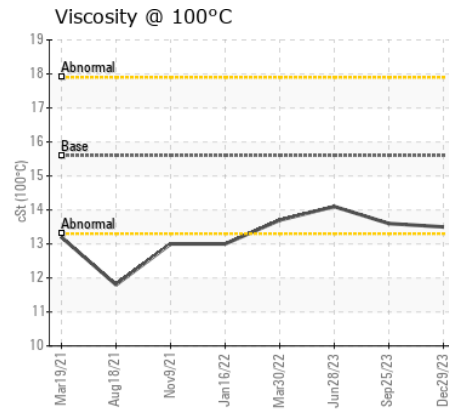
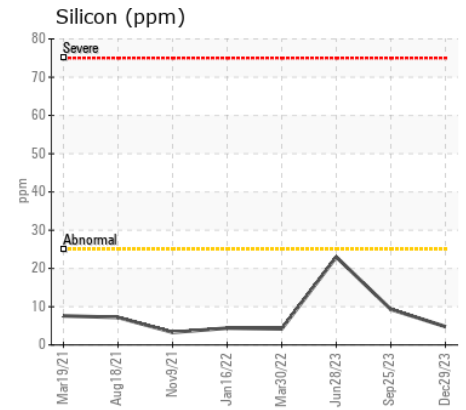
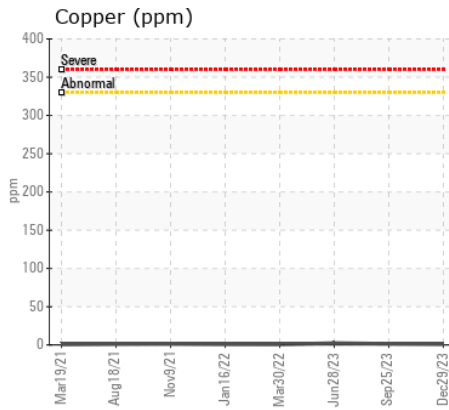
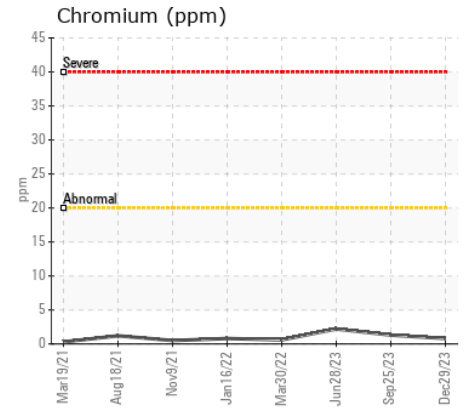
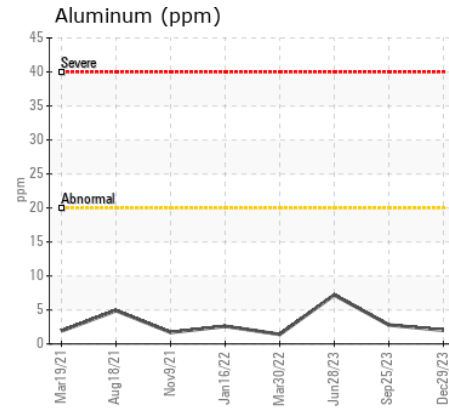
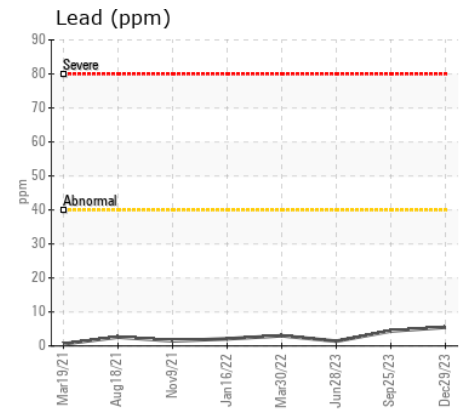
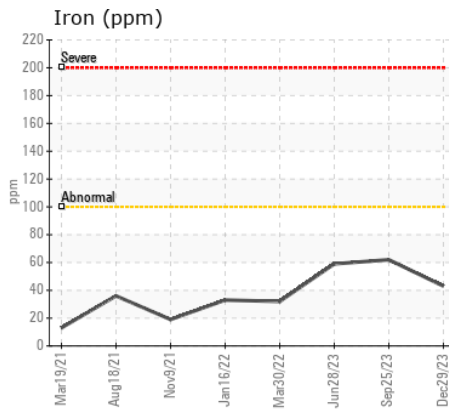
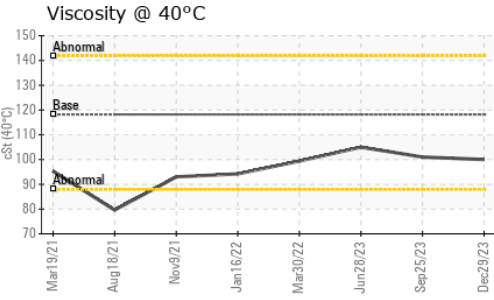
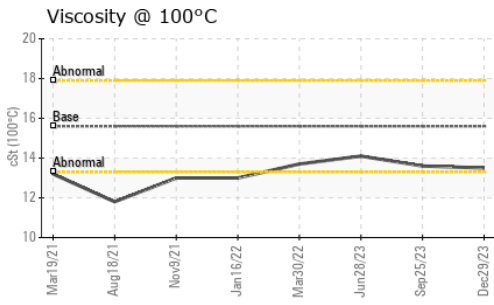
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>5</b>	9	23
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	7
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	0.0
Soot %	%	ASTM D7844*	>3	<b>0.5</b>	0.7	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.3</b>	8.3	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.8</b>	21.5	22.9
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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>5</b>	9	28
Boron	ppm	ASTM D5185(m)	0	<b>6</b>	7	74
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>64</b>	67	26
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>1000</b>	1005	285
Calcium	ppm	ASTM D5185(m)	1070	<b>1167</b>	1247	2067
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1051</b>	1077	1068
Zinc	ppm	ASTM D5185(m)	1270	<b>1264</b>	1323	1230
Sulfur	ppm	ASTM D5185(m)	2060	<b>2692</b>	2622	2762
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.9</b>	16.1	18.2
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	<b>100</b>	101	105
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.5</b>	13.6	14.1
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>134</b>	134	136



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0082836 **Received** : 10 Jan 2024  
**Lab Number** : 02607710 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 5708796 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

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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