

Machine Id  
**124-1806**  
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>PC0073058</b>	PC0065610	PC0065612
Sample Date		Client Info		<b>12 Dec 2023</b>	11 Apr 2023	08 Dec 2022
Machine Age	hrs	Client Info		<b>14000</b>	12647	12120
Oil Age	hrs	Client Info		<b>1000</b>	500	500
Filter Age	hrs	Client Info		<b>1000</b>	500	500
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)	>120	<b>15</b>	7	6
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>5</b>	3	1
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	3	<1
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

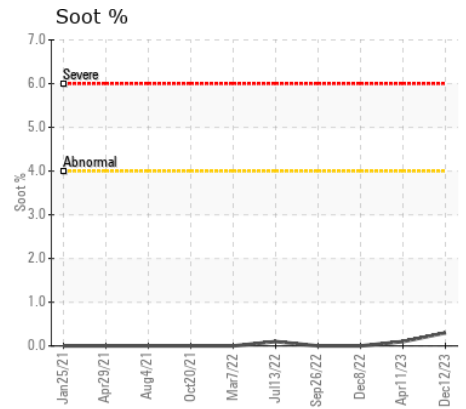
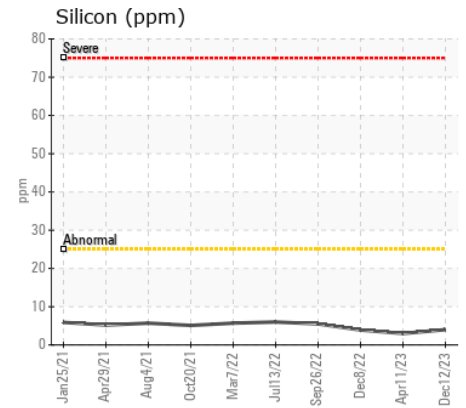
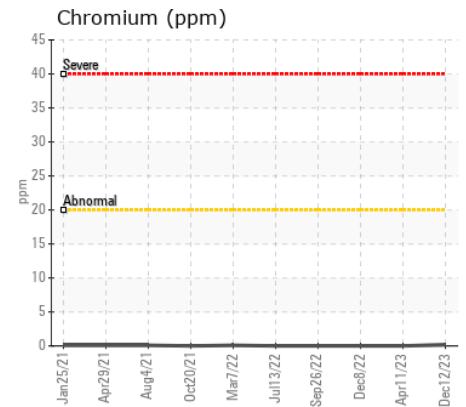
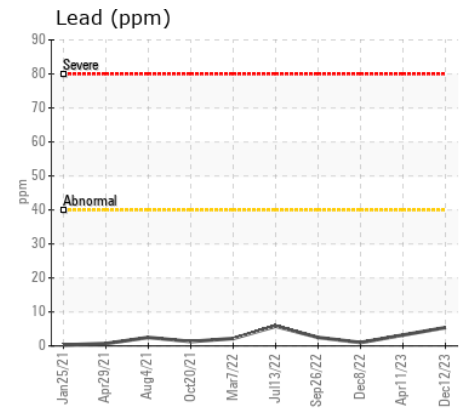
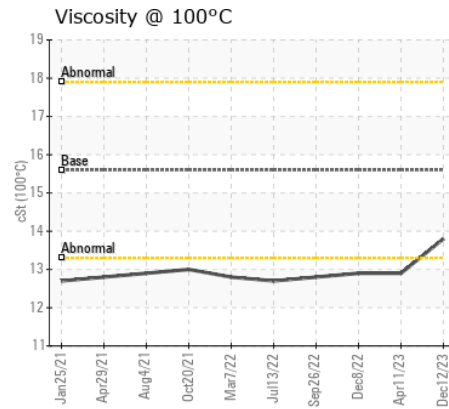
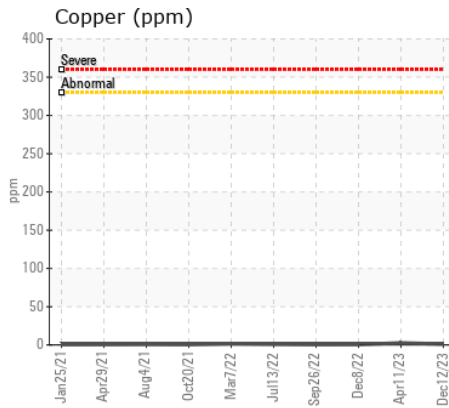
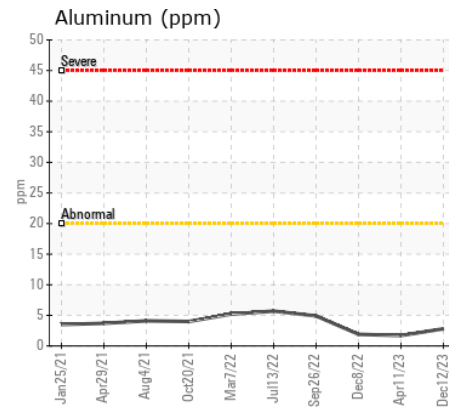
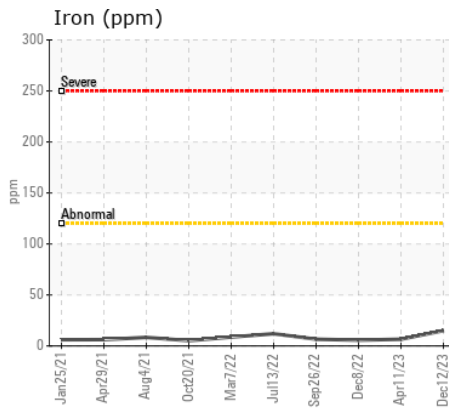
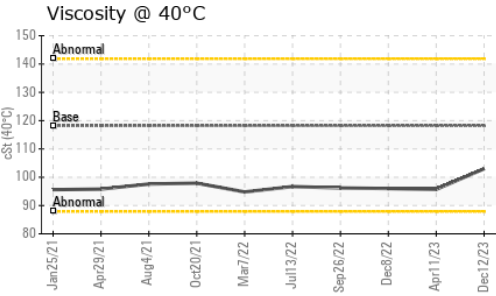
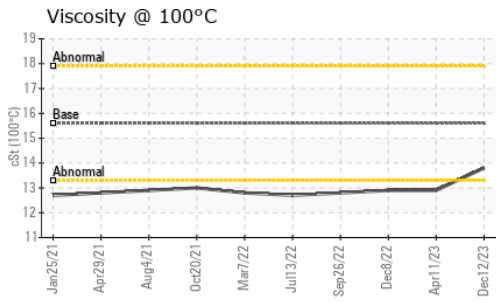
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	3	4
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	2	2
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*	>4	<b>0.3</b>	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.6</b>	10.0	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.2</b>	20.9	22.7
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>	3	4
Boron	ppm	ASTM D5185(m)	0	<b>10</b>	3	10
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>67</b>	61	63
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>947</b>	969	912
Calcium	ppm	ASTM D5185(m)	1070	<b>1114</b>	1087	1106
Phosphorus	ppm	ASTM D5185(m)	1150	<b>956</b>	1039	980
Zinc	ppm	ASTM D5185(m)	1270	<b>1191</b>	1165	1119
Sulfur	ppm	ASTM D5185(m)	2060	<b>2316</b>	2478	2369
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>22.1</b>	17.7	18.9
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	<b>103</b>	95.7	96.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>13.8</b>	12.9	12.9
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>134</b>	131	131



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0073058 **Received** : 08 Jan 2024  
**Lab Number** : 02606951 **Diagnosed** : 08 Jan 2024  
**Unique Number** : 5708037 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

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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