



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

Machine Id  
**0755**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (24 LTR)**

**RECOMMENDATION**

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

**WEAR**

All component wear rates are normal.

**CONTAMINATION**

There is a moderate concentration of dirt present in the oil.

**FLUID CONDITION**

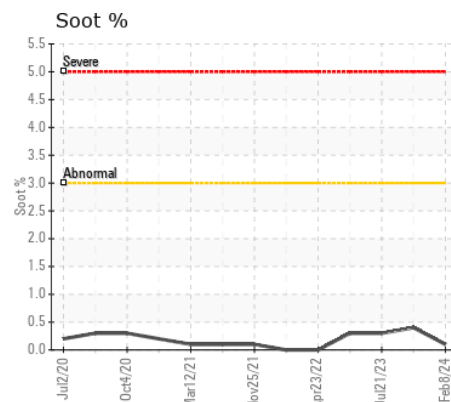
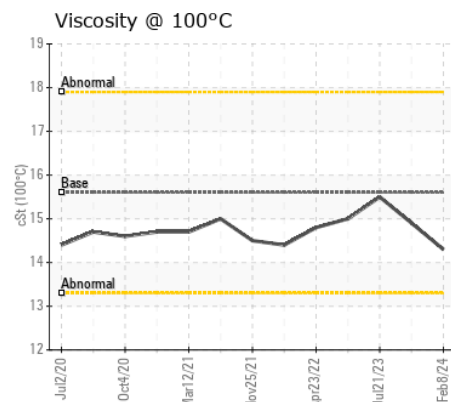
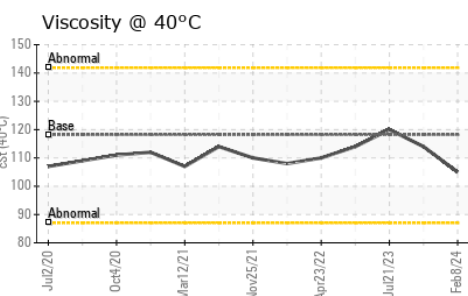
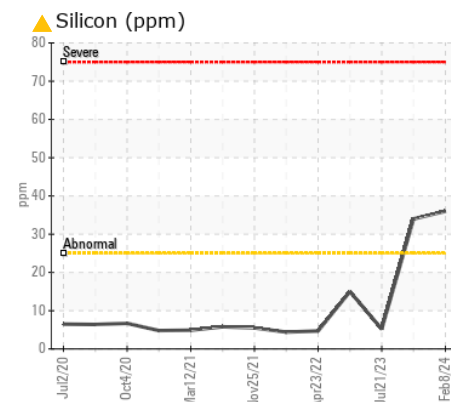
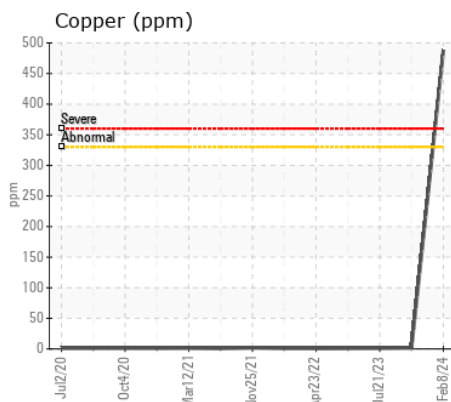
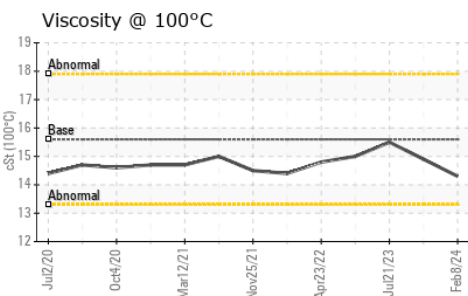
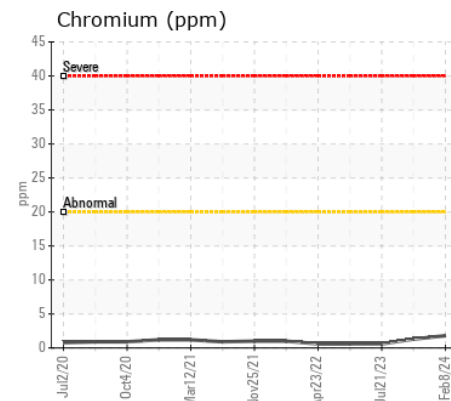
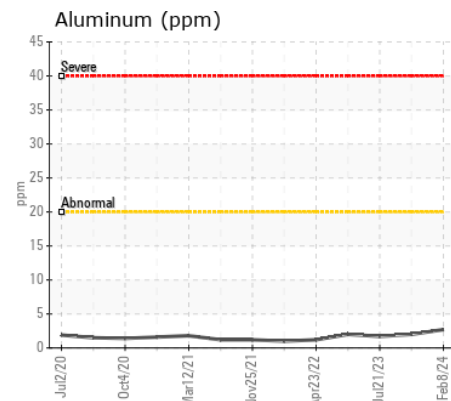
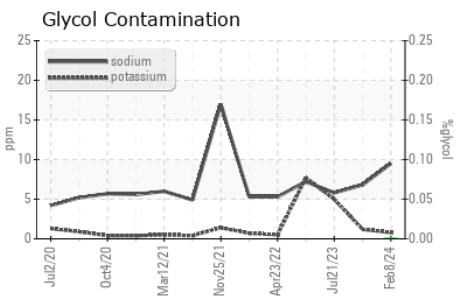
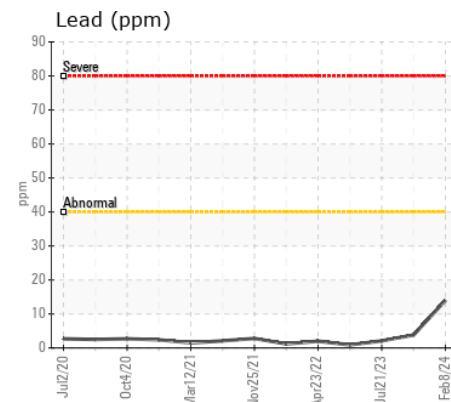
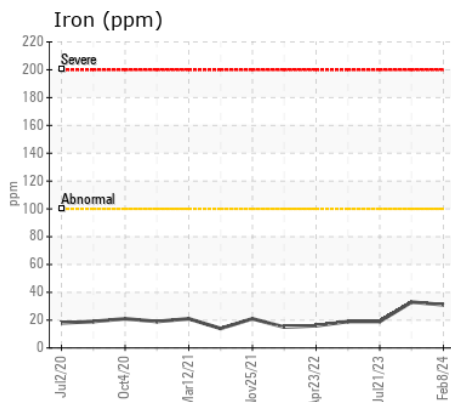
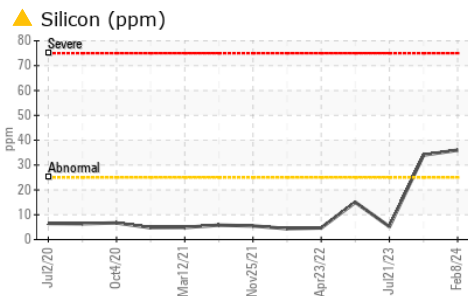
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PC0082731</b>	PC0062038	PC0031714
Sample Date		Client Info		<b>08 Feb 2024</b>	19 Oct 2023	21 Jul 2023
Machine Age	kms	Client Info		<b>966717</b>	947525	934390
Oil Age	kms	Client Info		<b>18871</b>	13074	13383
Filter Age	kms	Client Info		<b>18871</b>	13074	13383
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

Iron	ppm	ASTM D5185(m)	>100	<b>31</b>	33	19
Chromium	ppm	ASTM D5185(m)	>20	<b>2</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>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>14</b>	4	2
Copper	ppm	ASTM D5185(m)	>330	<b>488</b>	2	1
Tin	ppm	ASTM D5185(m)	>15	<b>3</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

Silicon	ppm	ASTM D5185(m)	>25	<b>▲ 36</b>	▲ 34	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	5
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.1</b>	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.4</b>	9.0	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.1</b>	22.0	24.7
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

Sodium	ppm	ASTM D5185(m)		<b>10</b>	7	6
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	12	49
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>61</b>	60	23
Manganese	ppm	ASTM D5185(m)	0	<b>1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>1014</b>	942	338
Calcium	ppm	ASTM D5185(m)	1070	<b>1109</b>	1339	1926
Phosphorus	ppm	ASTM D5185(m)	1150	<b>992</b>	1039	1024
Zinc	ppm	ASTM D5185(m)	1270	<b>1210</b>	1308	1221
Sulfur	ppm	ASTM D5185(m)	2060	<b>2348</b>	2561	2706
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.3</b>	18.4	19.8
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	<b>105</b>	114	120
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.3</b>	14.9	15.5
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>139</b>	135	135



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0082731 **Received** : 23 Feb 2024  
**Lab Number** : 02617604 **Tested** : 23 Feb 2024  
**Unique Number** : 5734714 **Diagnosed** : 26 Feb 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KV40, VI )

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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.