

Area  
**SHARP BUS LINES**  
Machine Id  
**INTERNATIONAL 4DRBUSKP4DB258269**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (--- GAL)**



**DIAGNOSIS**

**Recommendation**

We advise that you check the fuel injection system. The oil 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 high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

**Fluid Condition**

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0081546</b>	---	---
Sample Date	Client Info		<b>13 Sep 2023</b>	---	---
Machine Age	kms	Client Info	<b>259629</b>	---	---
Oil Age	kms	Client Info	<b>2000</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

CONTAMINATION	method	limit/base	current	history1	history2
Glycol	WC Method		<b>NEG</b>	---	---

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >127	<b>16</b>	---	---
Chromium	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m) >30	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >59	<b>5</b>	---	---
Lead	ppm	ASTM D5185(m) >29	<b>2</b>	---	---
Copper	ppm	ASTM D5185(m) >135	<b>2</b>	---	---
Tin	ppm	ASTM D5185(m) >2	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

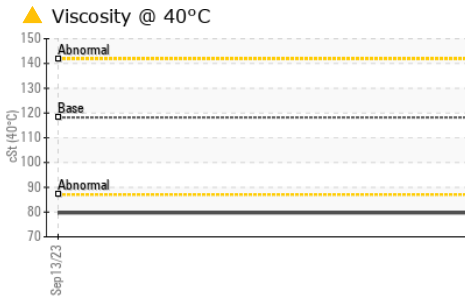
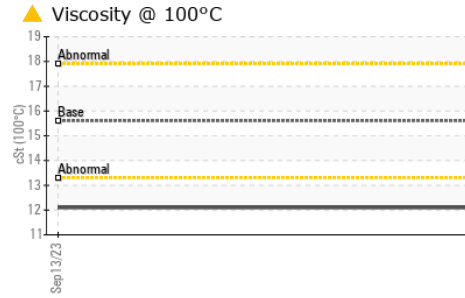
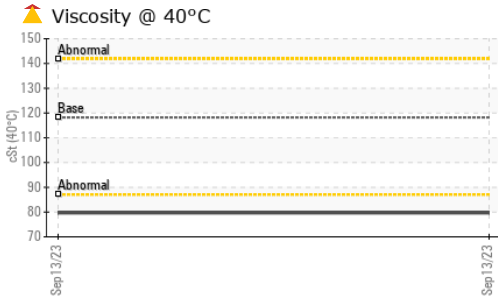
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<b>3</b>	---	---
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 60	<b>54</b>	---	---
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m) 1010	<b>866</b>	---	---
Calcium	ppm	ASTM D5185(m) 1070	<b>922</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 1150	<b>941</b>	---	---
Zinc	ppm	ASTM D5185(m) 1270	<b>1055</b>	---	---
Sulfur	ppm	ASTM D5185(m) 2060	<b>2343</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >18	<b>4</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	---	---
Fuel	%	ASTM D7593* >2.0	<b>8.6</b>	---	---

INFRA-RED	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.7</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>8.2</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>21.7</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	<b>17.4</b>	---	---

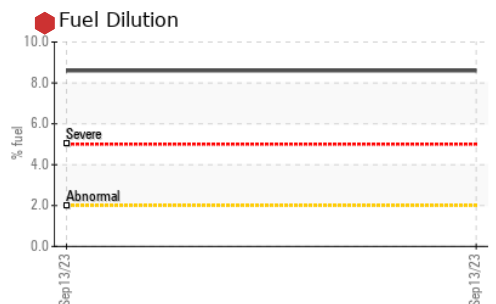
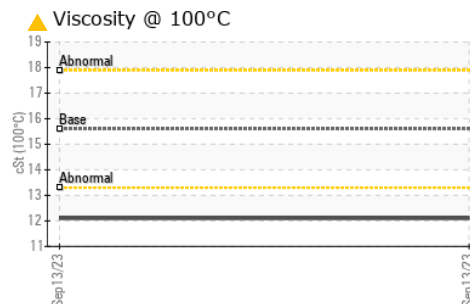
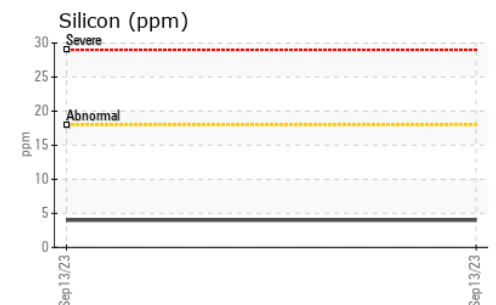
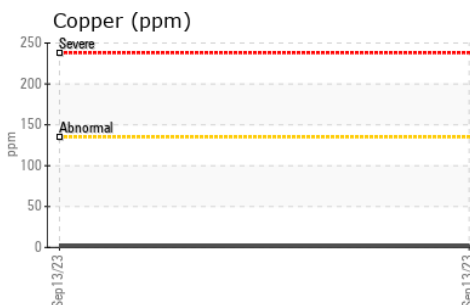
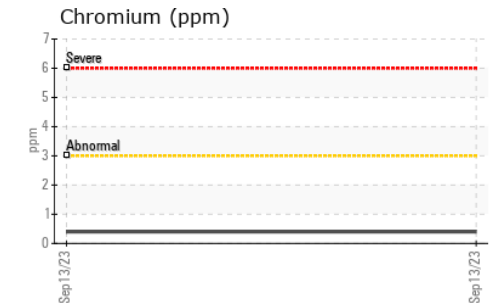
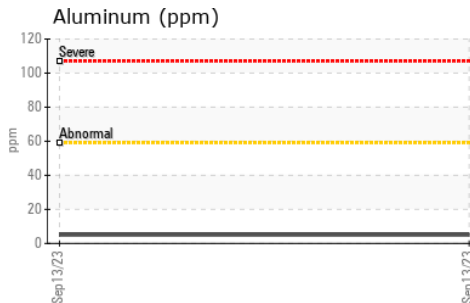
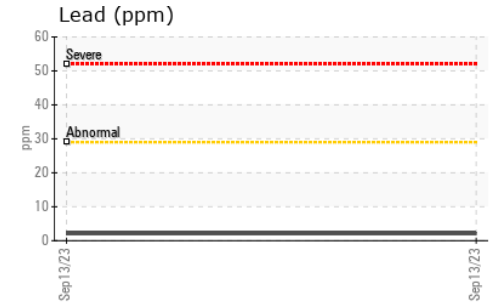
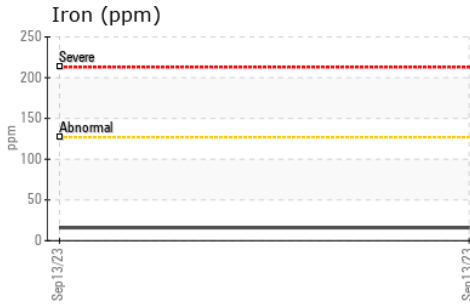
# OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	▲ 79.7	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	▲ 12.1	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	139	147	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0081546 **Received** : 22 Sep 2023  
**Lab Number** : 02584624 **Diagnosed** : 25 Sep 2023  
**Unique Number** : 5645689 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, KV40, PercentFuel, 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.