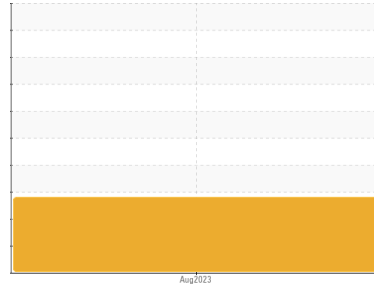




Machine Id  
**INTERNATIONAL 1312**

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>PC0081300</b>	---	---
Sample Date	Client Info	<b>18 Aug 2023</b>	---	---
Machine Age	kms	Client Info	<b>239655</b>	---
Oil Age	kms	Client Info	<b>2977</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>	---	---
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**WEAR METALS** method limit/base current history1 history2

Iron	ppm	ASTM D5185(m)	>100	<b>37</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>8</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</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>2</b>	---	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>51</b>	---	---
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>820</b>	---	---
Calcium	ppm	ASTM D5185(m)	1070	<b>875</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>932</b>	---	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1005</b>	---	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>2287</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>3</b>	---	---
Fuel	%	ASTM D7593*	>2.0	<b>14.6</b>	---	---

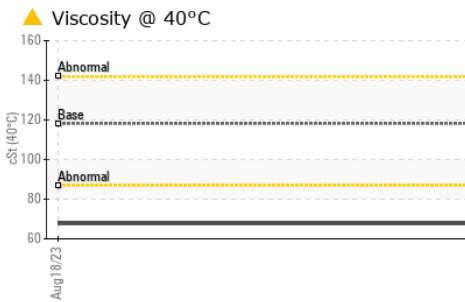
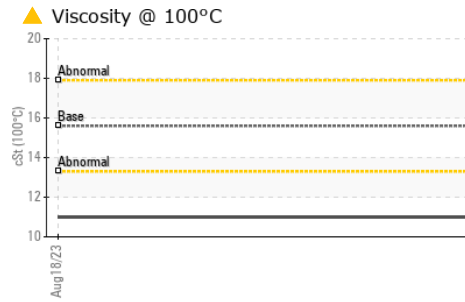
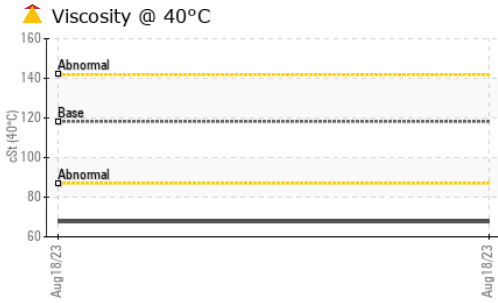
**INFRA-RED** method limit/base current history1 history2

Soot %	%	ASTM D7844*	>3	<b>1.6</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.0</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>25.3</b>	---	---

**FLUID DEGRADATION** method limit/base current history1 history2

Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.4</b>	---	---
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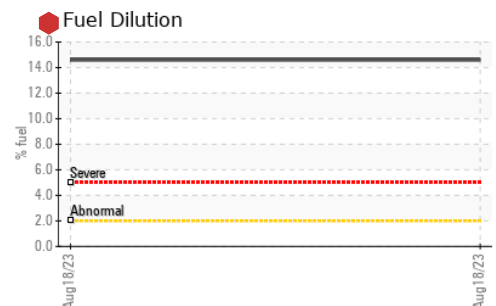
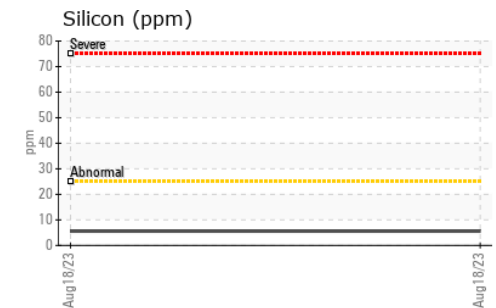
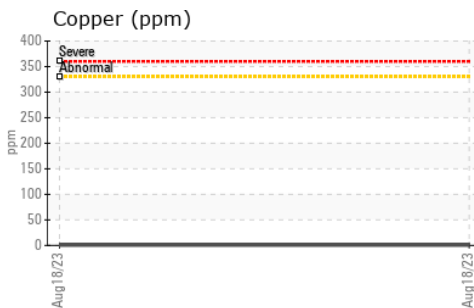
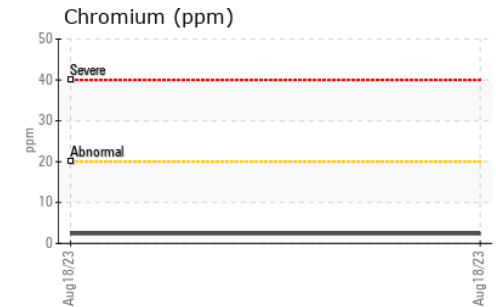
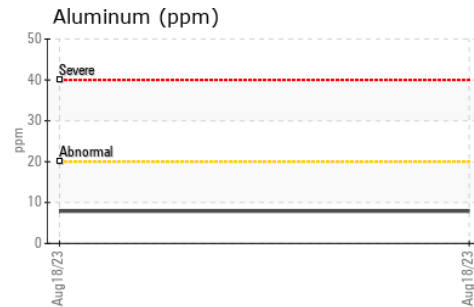
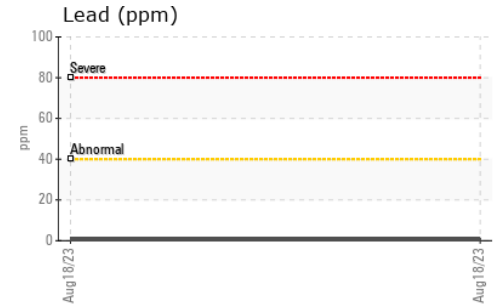
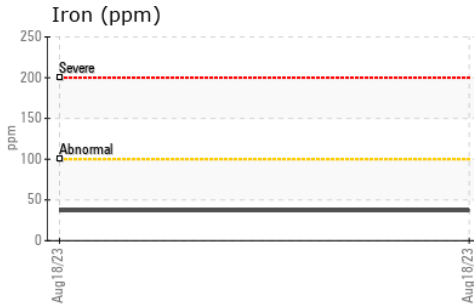
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	118.2	<b>▲ 67.7</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>▲ 11.0</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>154</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0081300 **Received** : 24 Aug 2023  
**Lab Number** : **02577866** **Diagnosed** : 25 Aug 2023  
**Unique Number** : 5630926 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, KV40, PercentFuel, VI )

**ICSB - Brantford**  
 567 Oak Park Rd.  
 Brantford, ON  
 CA N3T 5L8  
 Contact: Doug Hall  
 Djhall@sharpbus.com  
 T: (519)751-3434  
 F:

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.