

Area  
**SHARP BUS LINES**  
Machine Id  
**INTERNATIONAL 1379**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA 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>PC0081484</b>	---	---
Sample Date	Client Info		<b>12 Oct 2023</b>	---	---
Machine Age	kms	Client Info	<b>211545</b>	---	---
Oil Age	kms	Client Info	<b>2606</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) >100	<b>31</b>	---	---
Chromium	ppm	ASTM D5185(m) >20	<b>1</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>5</b>	---	---
Lead	ppm	ASTM D5185(m) >40	<b>2</b>	---	---
Copper	ppm	ASTM D5185(m) >330	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m) >15	<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)	<b>8</b>	---	---
Barium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	<b>44</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<b>676</b>	---	---
Calcium	ppm	ASTM D5185(m)	<b>768</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>728</b>	---	---
Zinc	ppm	ASTM D5185(m)	<b>839</b>	---	---
Sulfur	ppm	ASTM D5185(m)	<b>1872</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>3</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	---	---
Fuel	%	ASTM D7593* >2.0	<b>17.3</b>	---	---

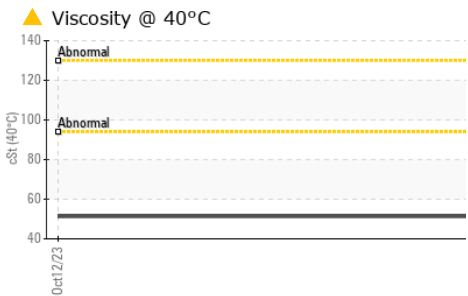
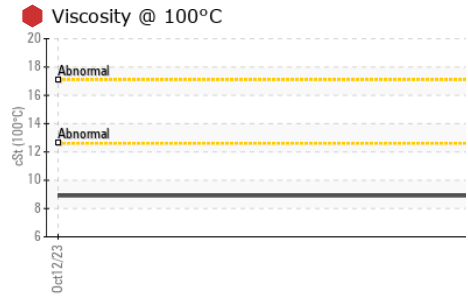
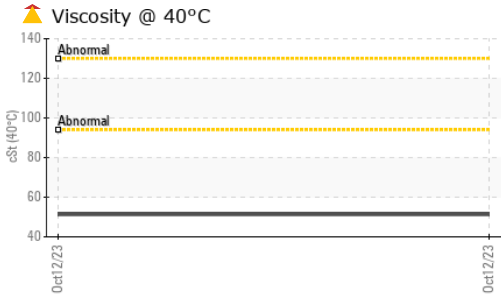
**INFRA-RED**

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>1.6</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>10.3</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>25.7</b>	---	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	<b>24.9</b>	---	---

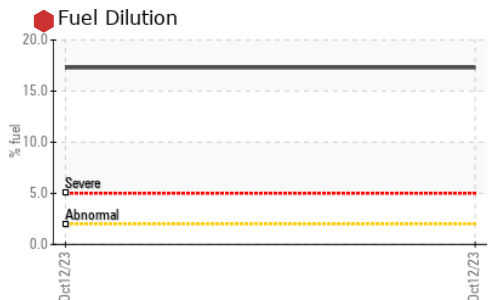
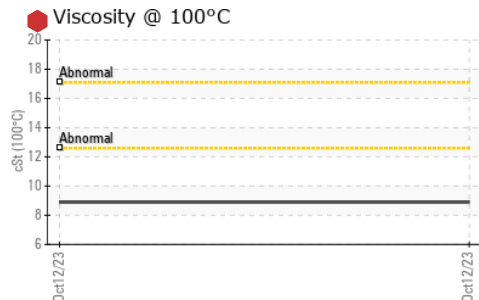
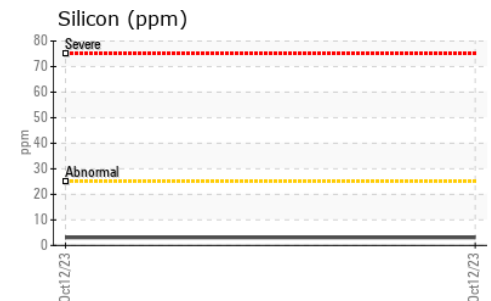
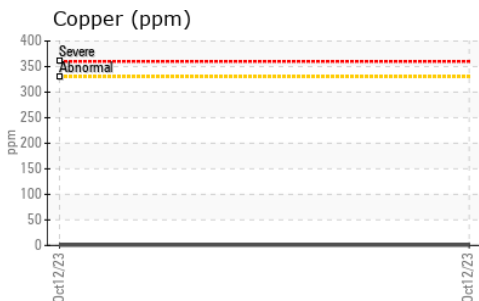
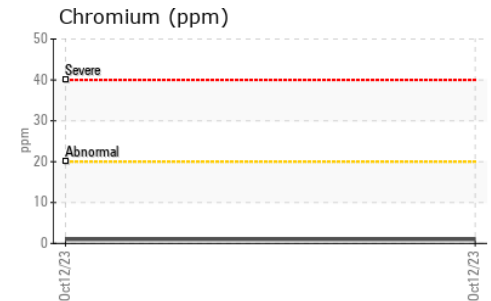
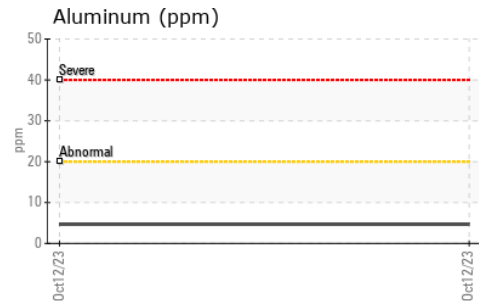
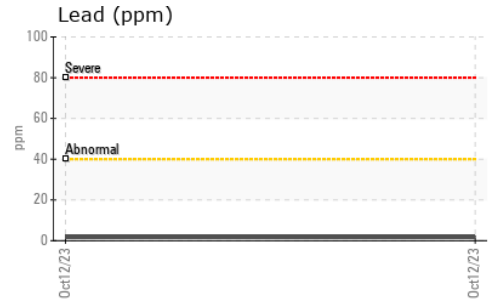
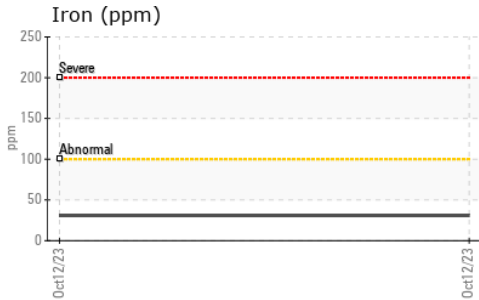
# OIL ANALYSIS REPORT



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)		▲ 51.3	---	---
Visc @ 100°C	cSt	ASTM D7279(m)		◆ 8.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270*		153	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0081484 **Received** : 18 Oct 2023  
**Lab Number** : 02589929 **Diagnosed** : 19 Oct 2023  
**Unique Number** : 5658995 **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.