

# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**26035ZA331**

Component  
**Rear Diesel Engine**

Fluid  
**PETRO CANADA DURON HP 15W40 (--- LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC0075225</b>	---	---
Sample Date	Client Info	<b>05 Oct 2023</b>	---	---
Machine Age	hrs Client Info	<b>7566</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >3.0	<b>&lt;1.0</b>	---	---
Water	WC Method >0.2	<b>NEG</b>	---	---
Glycol	WC Method	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >165	<b>34</b>	---	---
Chromium	ppm ASTM D5185(m) >5	<b>1</b>	---	---
Nickel	ppm ASTM D5185(m) >4	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185(m) >2	<b>0</b>	---	---
Silver	ppm ASTM D5185(m) >2	<b>&lt;1</b>	---	---
Aluminum	ppm ASTM D5185(m) >20	<b>1</b>	---	---
Lead	ppm ASTM D5185(m) >150	<b>7</b>	---	---
Copper	ppm ASTM D5185(m) >90	<b>6</b>	---	---
Tin	ppm ASTM D5185(m) >5	<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>11</b>	---	---
Barium	ppm ASTM D5185(m) 0	<b>&lt;1</b>	---	---
Molybdenum	ppm ASTM D5185(m) 60	<b>63</b>	---	---
Manganese	ppm ASTM D5185(m) 0	<b>0</b>	---	---
Magnesium	ppm ASTM D5185(m) 1010	<b>1014</b>	---	---
Calcium	ppm ASTM D5185(m) 1070	<b>1104</b>	---	---
Phosphorus	ppm ASTM D5185(m) 1150	<b>1009</b>	---	---
Zinc	ppm ASTM D5185(m) 1270	<b>1233</b>	---	---
Sulfur	ppm ASTM D5185(m) 2060	<b>2395</b>	---	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---

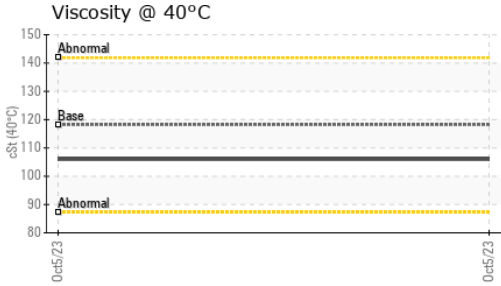
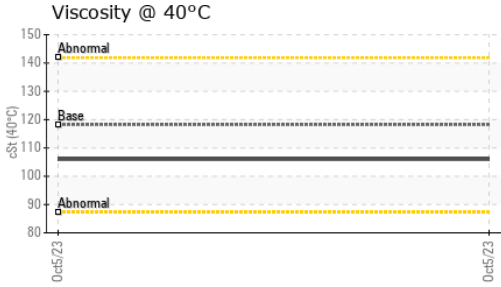
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >35	<b>8</b>	---	---
Sodium	ppm ASTM D5185(m)	<b>5</b>	---	---
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	---	---

## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >7.5	<b>1.9</b>	---	---
Nitration	Abs/cm ASTM D7624* >20	<b>11.9</b>	---	---
Sulfation	Abs./1mm ASTM D7415* >30	<b>27.4</b>	---	---

# OIL ANALYSIS REPORT

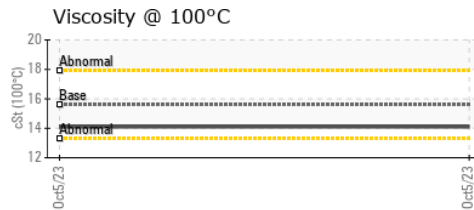
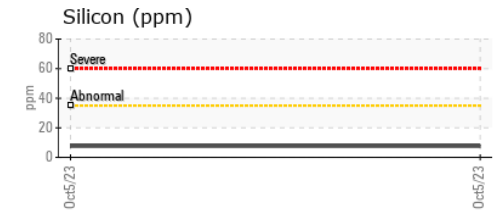
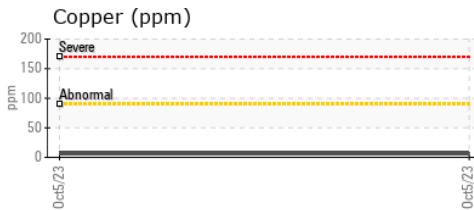
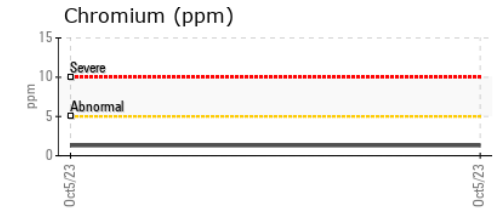
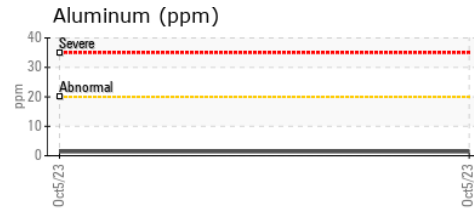
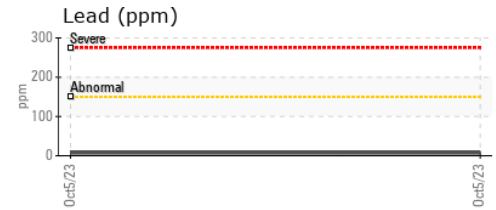
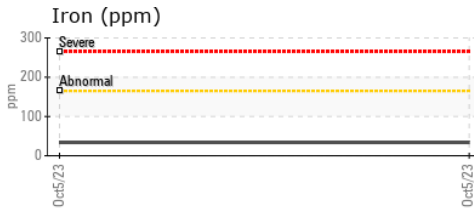


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>22.6</b>	---	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
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>106</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.1</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	139	<b>134</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0075225 **Received** : 15 Dec 2023  
**Lab Number** : **02603442** **Diagnosed** : 15 Dec 2023  
**Unique Number** : 5696527 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, Visual )

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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.