

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**HIGH CREST [6100226657]**  
Machine Id  
**U79242J**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON HP 15W40 (--- GAL)**

## 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>WA0019601</b>	---	---
Sample Date	Client Info		<b>27 Nov 2023</b>	---	---
Machine Age	hrs	Client Info	<b>1462</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	>5	<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)	>250	<b>7</b>	---
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	---
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	---
Aluminum	ppm	ASTM D5185(m)	>35	<b>&lt;1</b>	---
Lead	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185(m)	>60	<b>3</b>	---
Tin	ppm	ASTM D5185(m)	>5	<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>22</b>	---
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>50</b>	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>811</b>	---
Calcium	ppm	ASTM D5185(m)	1070	<b>1153</b>	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>943</b>	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1127</b>	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>2517</b>	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

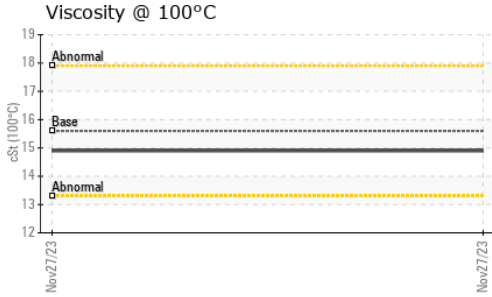
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>35	<b>2</b>	---
Sodium	ppm	ASTM D5185(m)		<b>2</b>	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	---

## INFRA-RED

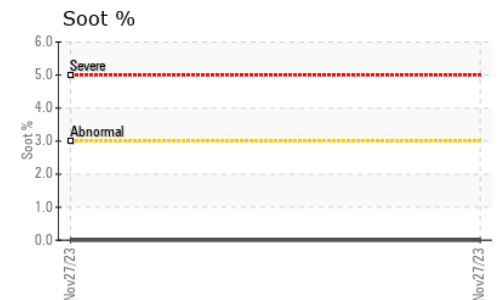
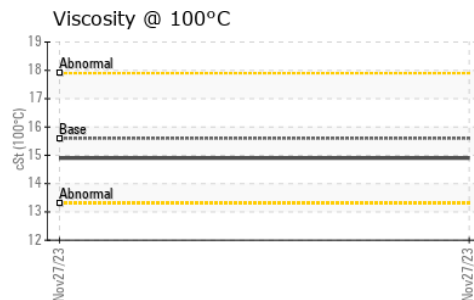
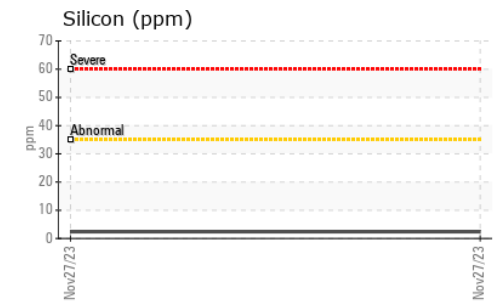
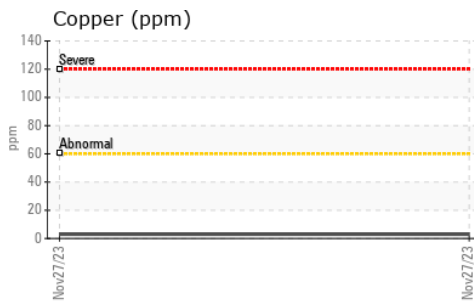
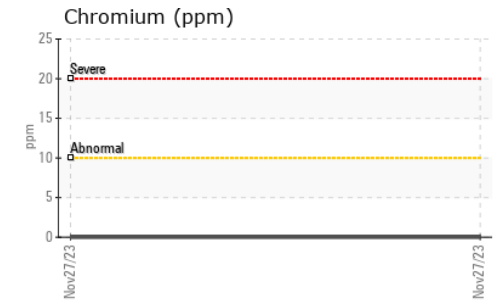
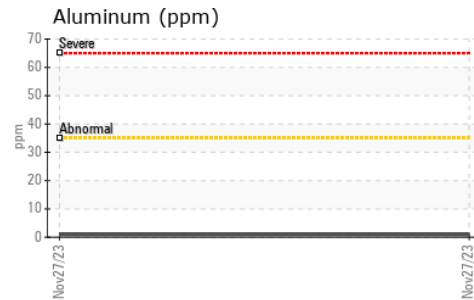
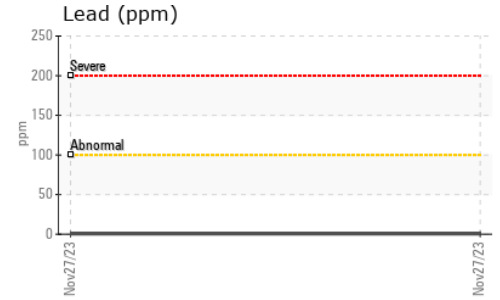
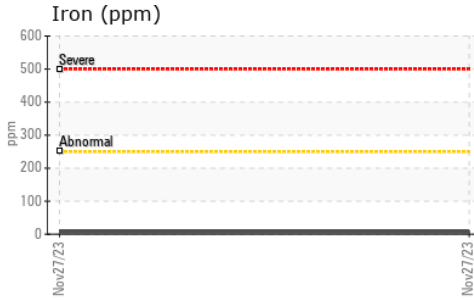
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0</b>	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.0</b>	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>18.9</b>	---

# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>15.2</b>	---	---
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 @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.9</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0019601 **Received** : 05 Dec 2023  
**Lab Number** : **02600838** **Diagnosed** : 05 Dec 2023  
**Unique Number** : 5693923 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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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.