



# OIL ANALYSIS REPORT

Sample Rating Trend

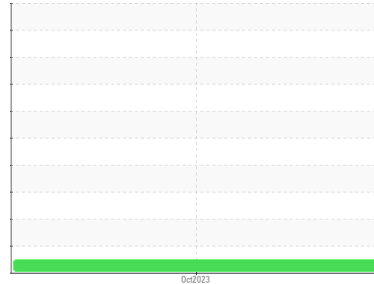
**NORMAL**



Area  
**[817347]**  
Machine Id  
**188031**

Component  
**Diesel Engine**  
Fluid

**PETRO CANADA DURON SHP 10W30 (--- 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>CU0021206</b>	---	---
Sample Date	Client Info	<b>13 Oct 2023</b>	---	---
Machine Age	hrs Client Info	<b>9108</b>	---	---
Oil Age	hrs Client Info	<b>180</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) >90	<b>7</b>	---	---
Chromium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185(m) >2	<b>0</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>&lt;1</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>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) 2	<b>3</b>	---	---
Barium	ppm ASTM D5185(m) 0	<b>&lt;1</b>	---	---
Molybdenum	ppm ASTM D5185(m) 50	<b>60</b>	---	---
Manganese	ppm ASTM D5185(m) 0	<b>0</b>	---	---
Magnesium	ppm ASTM D5185(m) 950	<b>954</b>	---	---
Calcium	ppm ASTM D5185(m) 1050	<b>1037</b>	---	---
Phosphorus	ppm ASTM D5185(m) 995	<b>1002</b>	---	---
Zinc	ppm ASTM D5185(m) 1180	<b>1182</b>	---	---
Sulfur	ppm ASTM D5185(m) 2600	<b>2588</b>	---	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

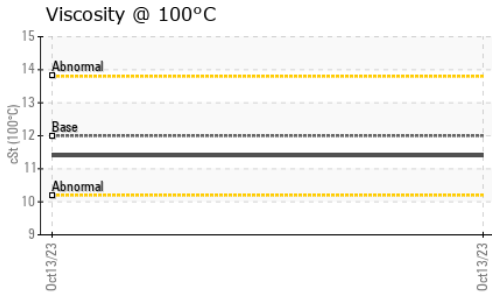
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>2</b>	---	---
Sodium	ppm ASTM D5185(m)	<b>3</b>	---	---
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	---	---

## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >6	<b>0.2</b>	---	---
Nitration	Abs/cm ASTM D7624* >20	<b>6.8</b>	---	---
Sulfation	Abs./1mm ASTM D7415* >30	<b>18.8</b>	---	---

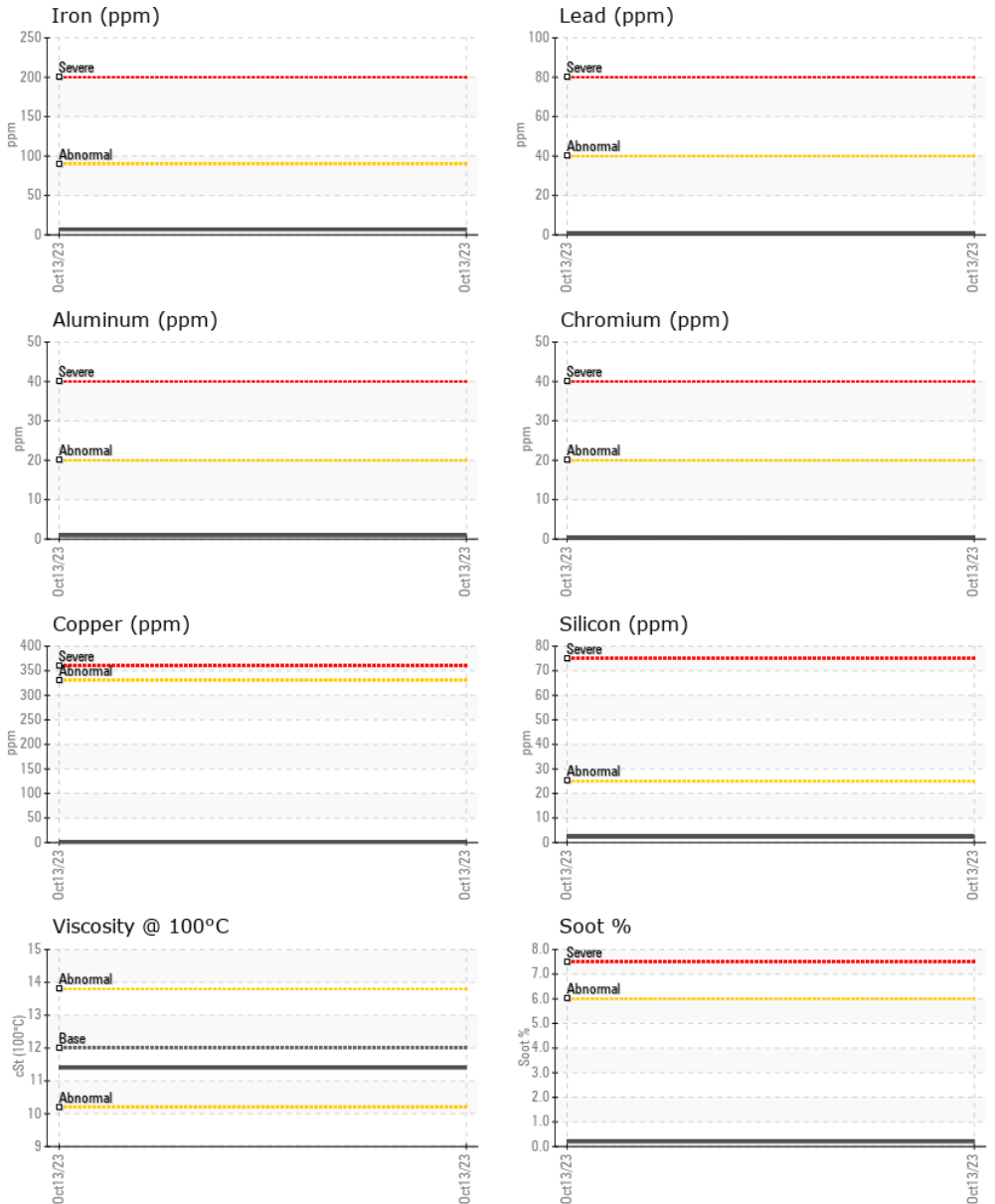


# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>15.1</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)	12.00	<b>11.4</b>	---	---

## GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
 Sample No. : CU0021206  
 Lab Number : 02592031  
 Unique Number : 5669110  
 Test Package : MOB 1

Received : 26 Oct 2023  
 Diagnosed : 26 Oct 2023  
 Diagnostician : Wes Davis

**CITY OF TORONTO**  
 120 DISCO ROAD  
 TORONTO, ON  
 CA M9W 1M4  
 Contact: DAVE C

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.

T: (905)670-5100  
 F: (905)670-7869