



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area

**[817679]**

Machine Id

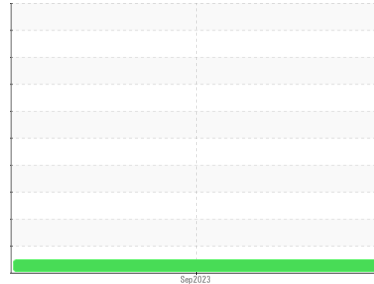
**INTERNATIONAL 1HTMYSKM2BJ392405**

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>CU0021203</b>	---	---
Sample Date	Client Info			<b>13 Sep 2023</b>	---	---
Machine Age	hrs	Client Info		<b>3430</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	>2.0		<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)	>127	<b>2</b>	---	---
Chromium	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)	>30	<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)	>59	<b>2</b>	---	---
Lead	ppm	ASTM D5185(m)	>29	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m)	>135	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m)	>2	<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>	---	---

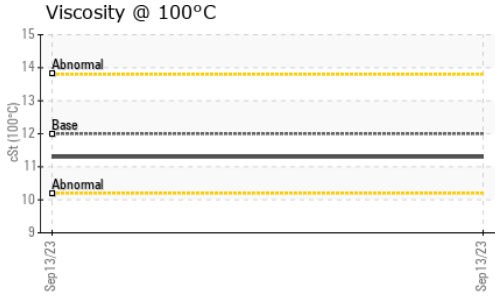
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	2	<b>2</b>	---	---
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	50	<b>59</b>	---	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	950	<b>951</b>	---	---
Calcium	ppm	ASTM D5185(m)	1050	<b>1017</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	995	<b>992</b>	---	---
Zinc	ppm	ASTM D5185(m)	1180	<b>1154</b>	---	---
Sulfur	ppm	ASTM D5185(m)	2600	<b>2613</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>18	<b>3</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>2</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.8</b>	---	---
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>17.6</b>	---	---

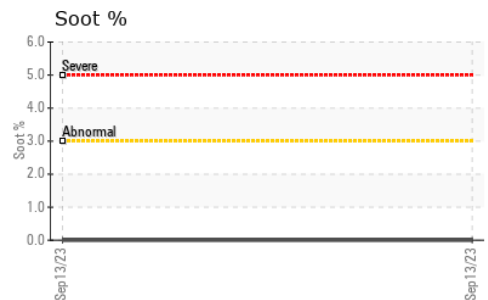
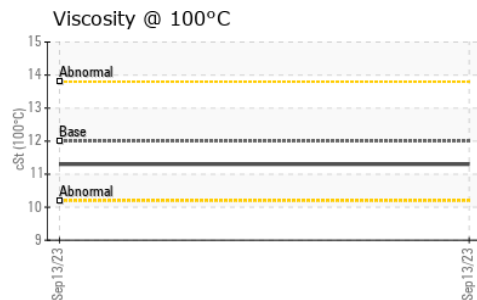
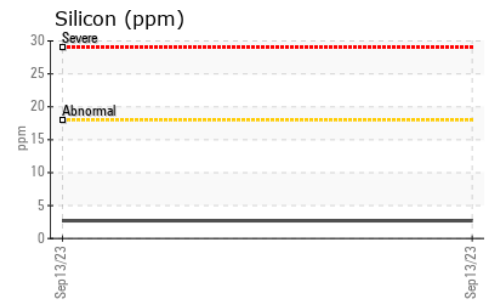
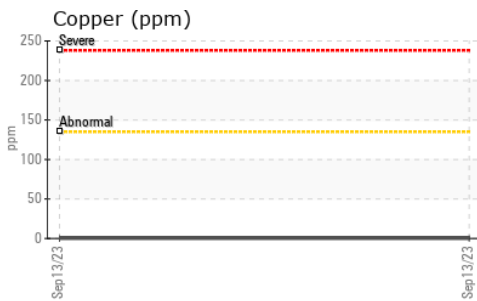
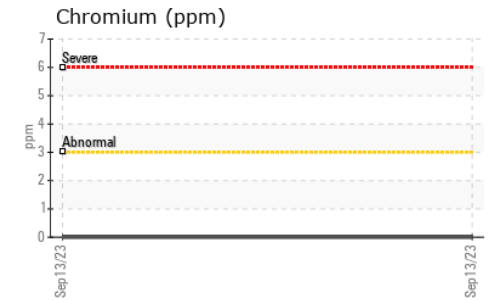
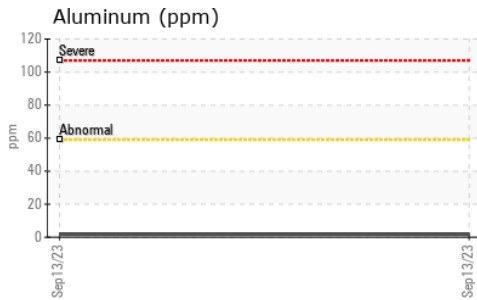
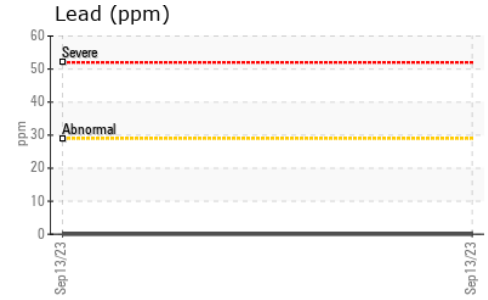
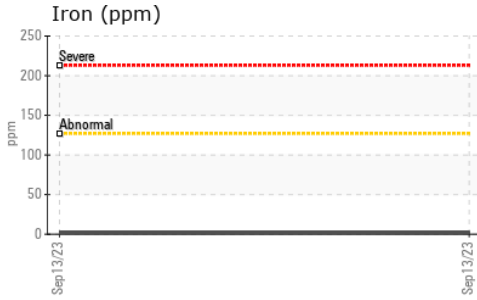


# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>13.4</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>11.3</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CU0021203      **Received** : 26 Oct 2023  
**Lab Number** : **02592029**      **Diagnosed** : 26 Oct 2023  
**Unique Number** : 5669108      **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**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.

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