

# OIL ANALYSIS REPORT

Sample Rating Trend



**DEGRADATION**



Machine Id  
**726270**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

**DIAGNOSIS**

**▲ Recommendation**  
 Oil and filter change at the time of sampling has been noted. 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 BN level is low. The oil is no longer serviceable.

**SAMPLE INFORMATION** method limit/base current history1 history2

Sample Number	Client Info		<b>PCA0099100</b>	---	---
Sample Date	Client Info		<b>29 Jul 2023</b>	---	---
Machine Age	mls	Client Info	<b>47000</b>	---	---
Oil Age	mls	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

**CONTAMINATION** method limit/base current history1 history2

Fuel	WC Method	>5	<b>&lt;1.0</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

**WEAR METALS** method limit/base current history1 history2

Iron	ppm	ASTM D5185m	>100	<b>115</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>4</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>20	<b>9</b>	---	---
Lead	ppm	ASTM D5185m	>40	<b>9</b>	---	---
Copper	ppm	ASTM D5185m	>330	<b>2</b>	---	---
Tin	ppm	ASTM D5185m	>15	<b>2</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

**ADDITIVES** method limit/base current history1 history2

Boron	ppm	ASTM D5185m	2	<b>4</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	50	<b>77</b>	---	---
Manganese	ppm	ASTM D5185m	0	<b>1</b>	---	---
Magnesium	ppm	ASTM D5185m	950	<b>1041</b>	---	---
Calcium	ppm	ASTM D5185m	1050	<b>1252</b>	---	---
Phosphorus	ppm	ASTM D5185m	995	<b>1148</b>	---	---
Zinc	ppm	ASTM D5185m	1180	<b>1387</b>	---	---
Sulfur	ppm	ASTM D5185m	2600	<b>2941</b>	---	---

**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm	ASTM D5185m	>25	<b>9</b>	---	---
Sodium	ppm	ASTM D5185m		<b>2</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>18</b>	---	---

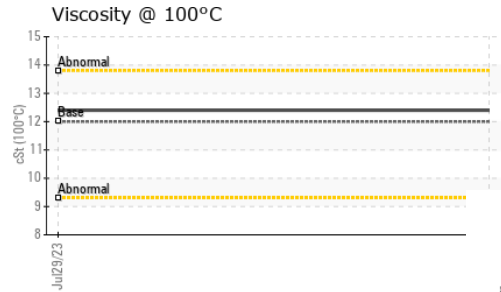
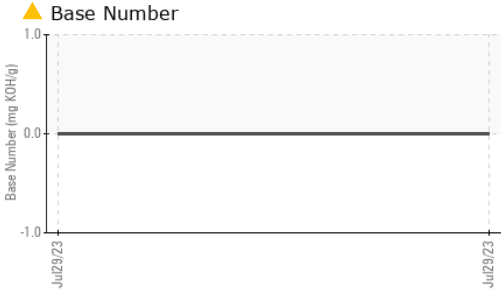
**INFRA-RED** method limit/base current history1 history2

Soot %	%	*ASTM D7844	>3	<b>0.6</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>21.1</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>36.7</b>	---	---

**FLUID DEGRADATION** method limit/base current history1 history2

Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>53.3</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>▲ 0.0</b>	---	---

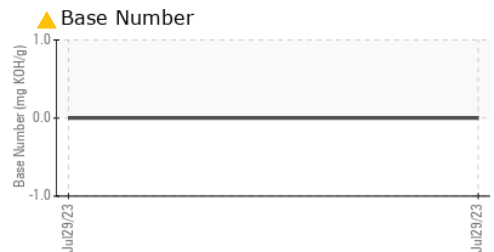
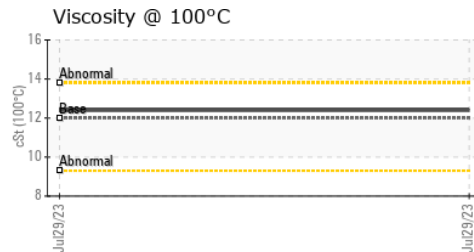
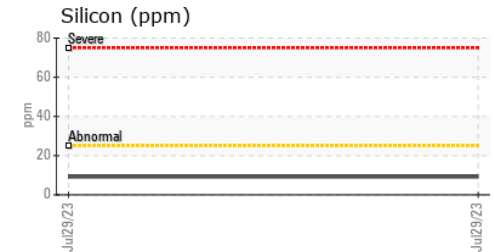
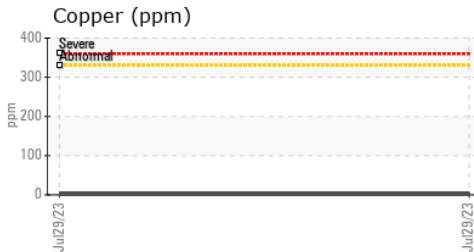
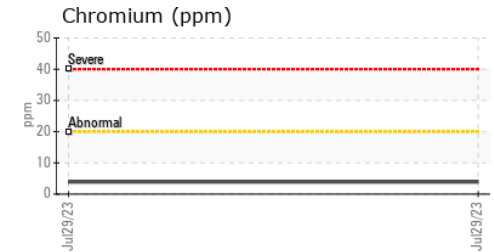
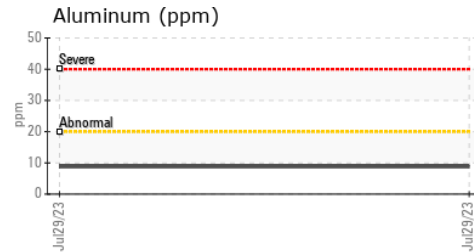
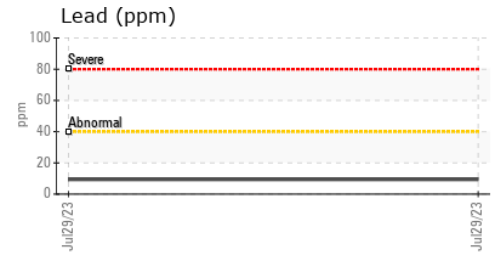
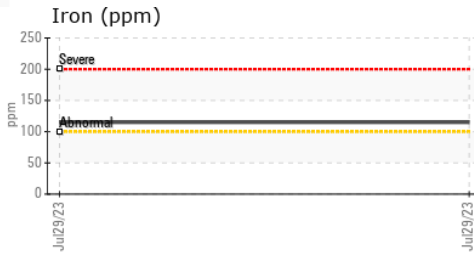
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	<b>12.4</b>	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0099100 **Received** : 31 Aug 2023  
**Lab Number** : 05939525 **Diagnosed** : 01 Sep 2023  
**Unique Number** : 10630137 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #116**  
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)