

# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**426748**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

### ▲ Wear

The aluminum level is abnormal. All other component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. 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>PCA0105835</b>	---	---
Sample Date	Client Info		<b>14 Dec 2023</b>	---	---
Machine Age	mls	Client Info	<b>93630</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>	---	---
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 D5185m	>100	<b>59</b>	---
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>20	<b>▲ 24</b>	---
Lead	ppm	ASTM D5185m	>40	<b>0</b>	---
Copper	ppm	ASTM D5185m	>330	<b>8</b>	---
Tin	ppm	ASTM D5185m	>15	<b>0</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>72</b>	---
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185m	950	<b>1083</b>	---
Calcium	ppm	ASTM D5185m	1050	<b>1437</b>	---
Phosphorus	ppm	ASTM D5185m	995	<b>1162</b>	---
Zinc	ppm	ASTM D5185m	1180	<b>1503</b>	---
Sulfur	ppm	ASTM D5185m	2600	<b>3607</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>6</b>	---
Sodium	ppm	ASTM D5185m		<b>4</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>33</b>	---

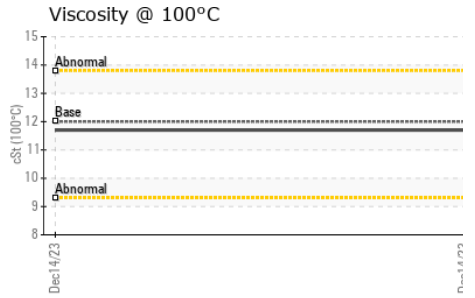
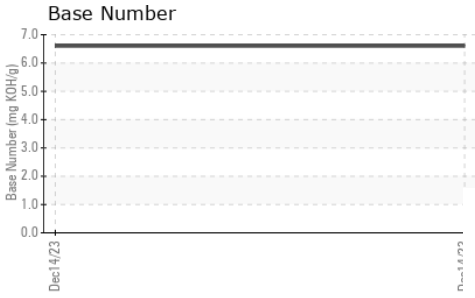
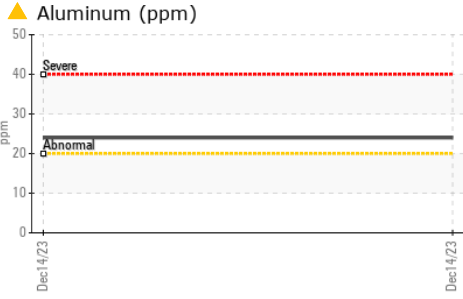
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1</b>	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.2</b>	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.1</b>	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.5</b>	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.6</b>	---

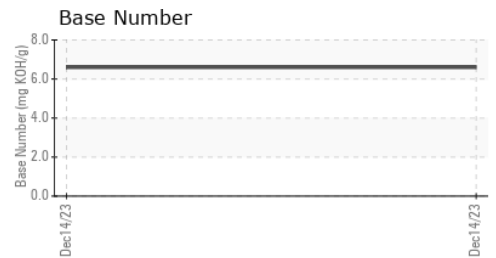
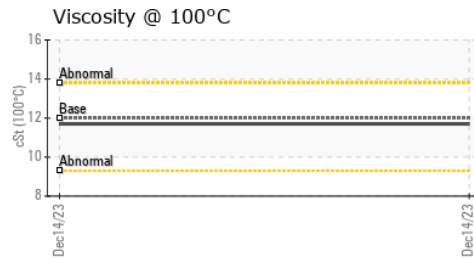
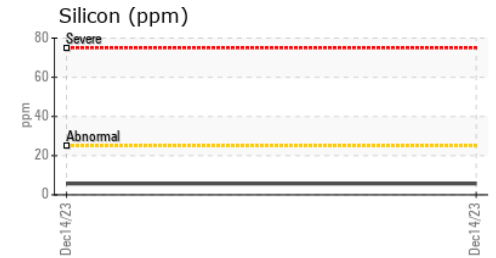
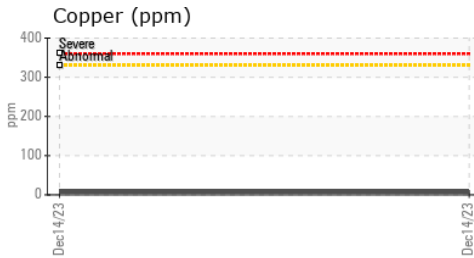
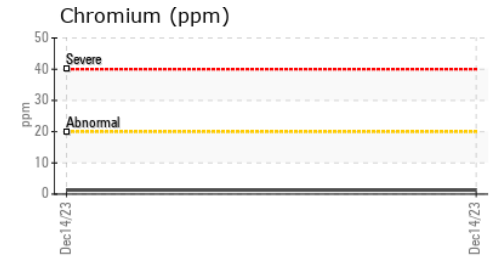
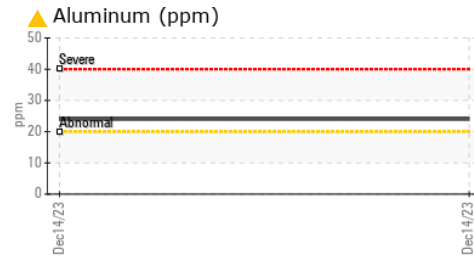
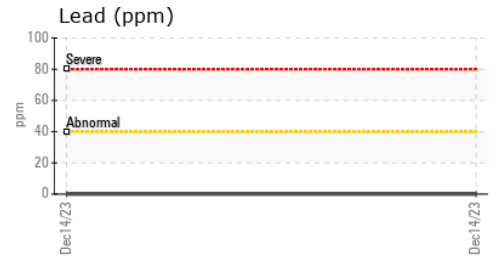
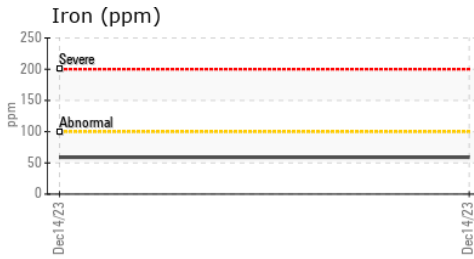
# OIL ANALYSIS REPORT



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	11.7	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0105835      **Received** : 21 Mar 2024  
**Lab Number** : 06124627      **Tested** : 22 Mar 2024  
**Unique Number** : 10938778      **Diagnosed** : 23 Mar 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #114**  
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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)