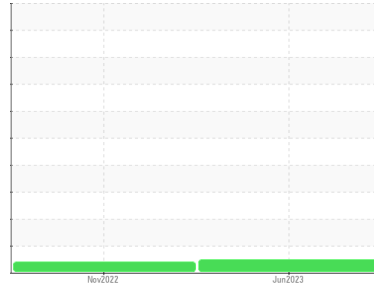


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**639277**

Component  
**Diesel Engine**

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

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### Wear

Metal levels are typical for a new component breaking in.

### 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 suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0097323</b>	PCA0071687	---
Sample Date	Client Info		<b>27 Jun 2023</b>	30 Nov 2022	---
Machine Age	mls	Client Info	<b>58090</b>	28826	---
Oil Age	mls	Client Info	<b>29264</b>	28826	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	ATTENTION	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>30</b>	35	---
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	1	---
Titanium	ppm	ASTM D5185m	<b>16</b>	15	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	1	---
Aluminum	ppm	ASTM D5185m >20	<b>8</b>	27	---
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185m >330	<b>4</b>	11	---
Tin	ppm	ASTM D5185m >15	<b>1</b>	2	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>8</b>	16	---
Barium	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>52</b>	49	---
Manganese	ppm	ASTM D5185m 0	<b>1</b>	2	---
Magnesium	ppm	ASTM D5185m 950	<b>825</b>	885	---
Calcium	ppm	ASTM D5185m 1050	<b>1237</b>	1504	---
Phosphorus	ppm	ASTM D5185m 995	<b>992</b>	1039	---
Zinc	ppm	ASTM D5185m 1180	<b>1260</b>	1363	---
Sulfur	ppm	ASTM D5185m 2600	<b>2981</b>	3738	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>14</b>	12	---
Sodium	ppm	ASTM D5185m	<b>3</b>	3	---
Potassium	ppm	ASTM D5185m >20	<b>23</b>	89	---

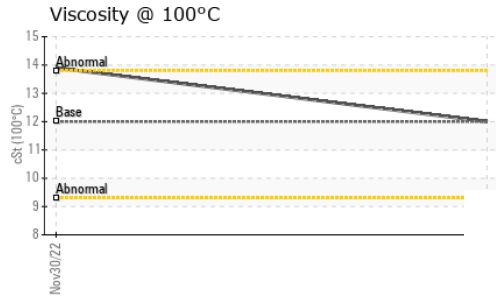
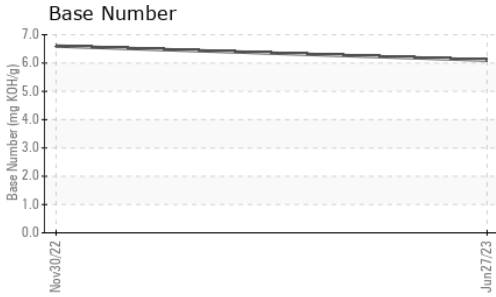
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.6</b>	10.9	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.3</b>	23.7	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.2</b>	19.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.1</b>	6.6	---

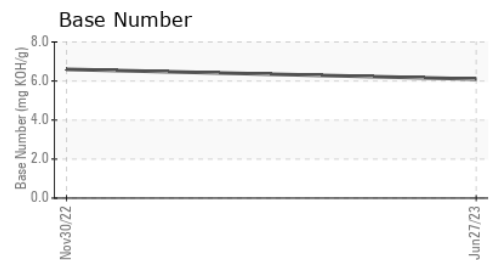
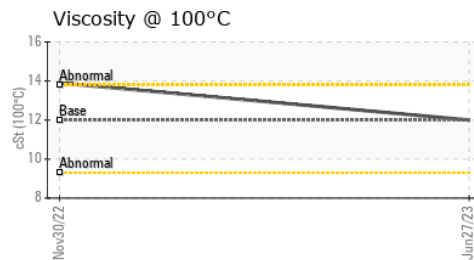
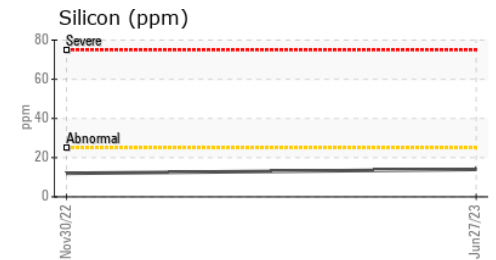
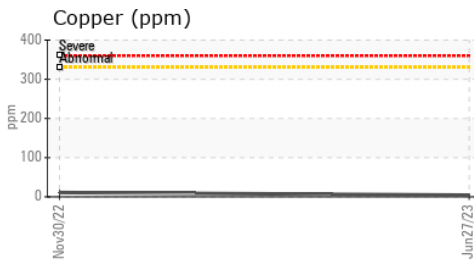
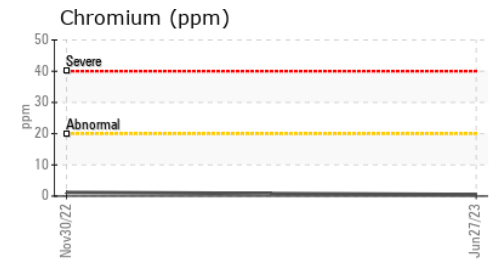
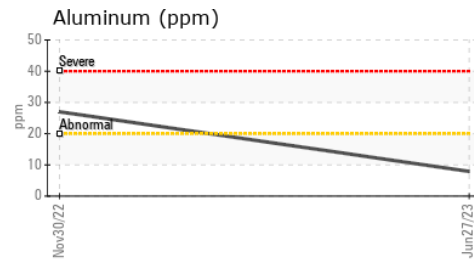
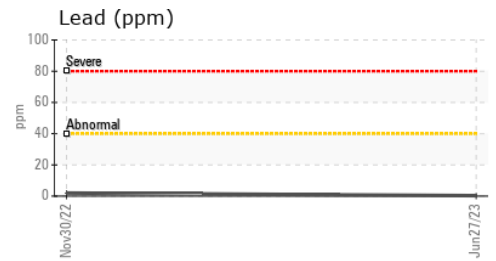
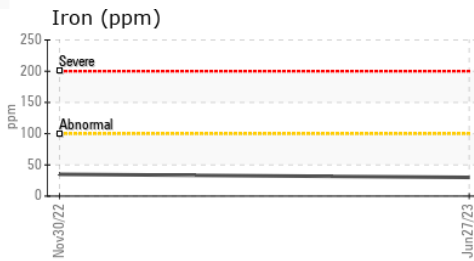
# OIL ANALYSIS REPORT



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	▲ 13.9	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0097323 **Received** : 20 Oct 2023  
**Lab Number** : 05984531 **Diagnosed** : 23 Oct 2023  
**Unique Number** : 10701826 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #123**  
 66 KELLER AVENUE  
 LANCASTER, PA  
 US 17601  
 Contact: RON ROBERTS  
 roberts@millertransgroup.com  
 T: (717)945-6205  
 F: (717)945-5818

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)