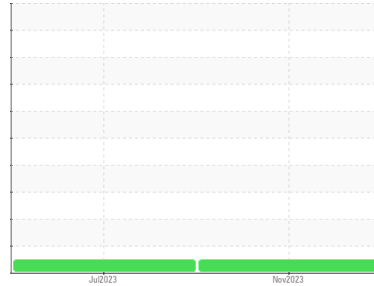


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**645158**

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

Metal levels are typical for a new component breaking in.

### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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>PCA0093383</b>	PCA0093307	---
Sample Date	Client Info		<b>01 Nov 2023</b>	24 Jul 2023	---
Machine Age	mls	Client Info	<b>42280</b>	21254	---
Oil Age	mls	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Not Changd	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## 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>75</b>	37	---
Chromium	ppm	ASTM D5185m >20	<b>2</b>	1	---
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m >20	<b>55</b>	34	---
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m >330	<b>16</b>	11	---
Tin	ppm	ASTM D5185m >15	<b>3</b>	2	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>20</b>	22	---
Barium	ppm	ASTM D5185m 0	<b>6</b>	<1	---
Molybdenum	ppm	ASTM D5185m 50	<b>20</b>	12	---
Manganese	ppm	ASTM D5185m 0	<b>3</b>	2	---
Magnesium	ppm	ASTM D5185m 950	<b>739</b>	748	---
Calcium	ppm	ASTM D5185m 1050	<b>1477</b>	1375	---
Phosphorus	ppm	ASTM D5185m 995	<b>909</b>	779	---
Zinc	ppm	ASTM D5185m 1180	<b>1031</b>	937	---
Sulfur	ppm	ASTM D5185m 2600	<b>2768</b>	3358	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>16</b>	12	---
Sodium	ppm	ASTM D5185m	<b>3</b>	5	---
Potassium	ppm	ASTM D5185m >20	<b>147</b>	85	---

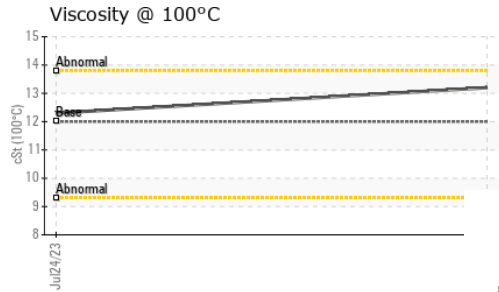
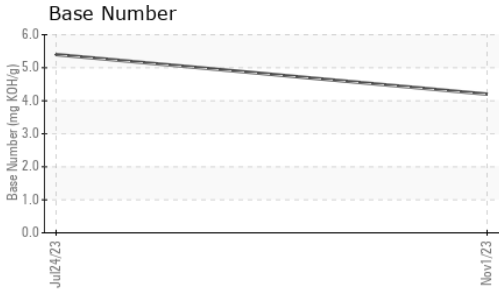
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.5</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>13.0</b>	11.0	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>30.0</b>	24.5	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>28.1</b>	20.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>4.2</b>	5.4	---

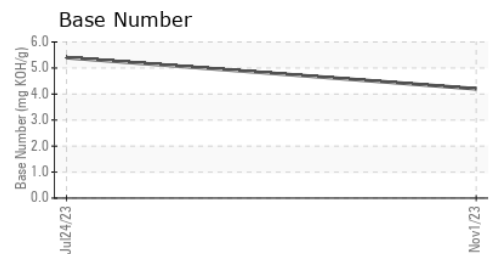
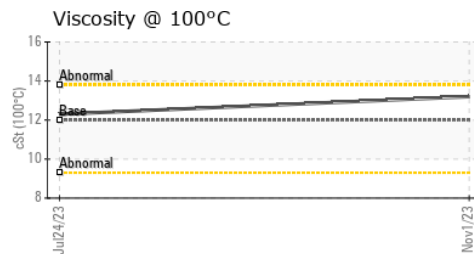
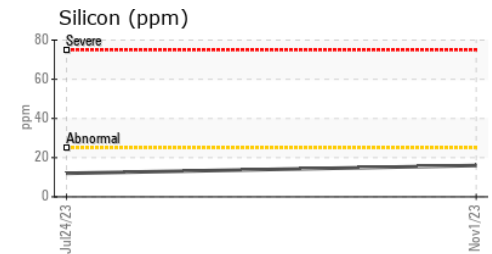
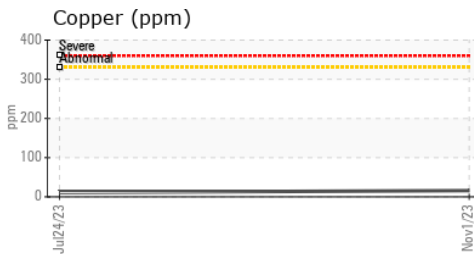
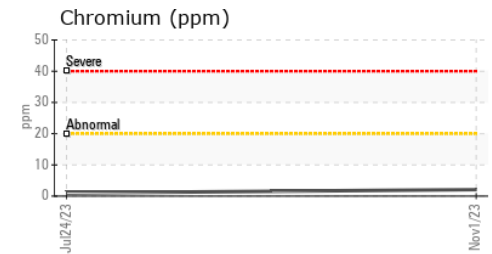
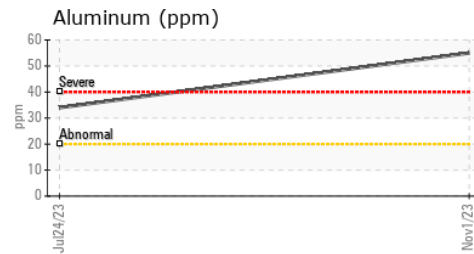
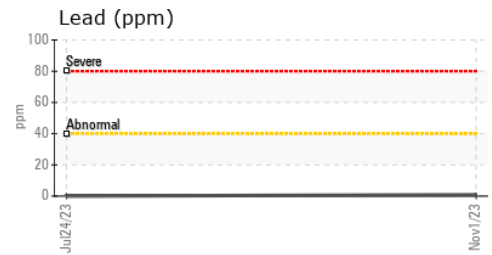
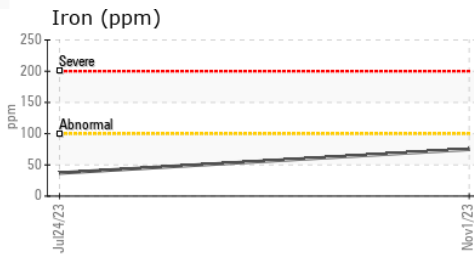
# OIL ANALYSIS REPORT



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>13.2</b>	12.3	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0093383 **Received** : 07 Nov 2023  
**Lab Number** : 06000283 **Diagnosed** : 08 Nov 2023  
**Unique Number** : 10728643 **Diagnostician** : Sean Felton  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #117**  
 2666 LEISCZS BRIDGE RD  
 LEESPORT, PA  
 US 19533  
 Contact: JAMEY RITZ  
 jritz@millertransgroup.com

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)

T:  
F: