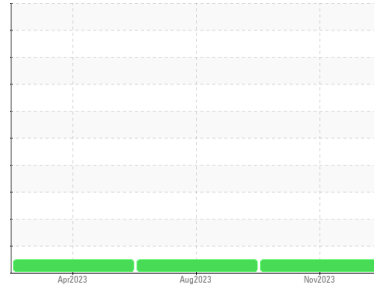


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**633722**

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

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>PCA0093335</b>	PCA0093320	PCA0078797
Sample Date	Client Info		<b>17 Nov 2023</b>	10 Aug 2023	14 Apr 2023
Machine Age	mls	Client Info	<b>61175</b>	47801	31027
Oil Age	mls	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>47</b>	30	91
Chromium	ppm	ASTM D5185m >20	<b>2</b>	1	3
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>7</b>	6	<1
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m >20	<b>17</b>	15	39
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m >330	<b>13</b>	9	51
Tin	ppm	ASTM D5185m >15	<b>1</b>	<1	3
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>4</b>	5	18
Barium	ppm	ASTM D5185m 0	<b>13</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>58</b>	52	18
Manganese	ppm	ASTM D5185m 0	<b>2</b>	<1	3
Magnesium	ppm	ASTM D5185m 950	<b>956</b>	936	714
Calcium	ppm	ASTM D5185m 1050	<b>1280</b>	1259	1393
Phosphorus	ppm	ASTM D5185m 995	<b>1026</b>	990	722
Zinc	ppm	ASTM D5185m 1180	<b>1302</b>	1254	887
Sulfur	ppm	ASTM D5185m 2600	<b>3106</b>	3558	3057

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>12</b>	11	17
Sodium	ppm	ASTM D5185m	<b>1</b>	4	4
Potassium	ppm	ASTM D5185m >20	<b>49</b>	34	111

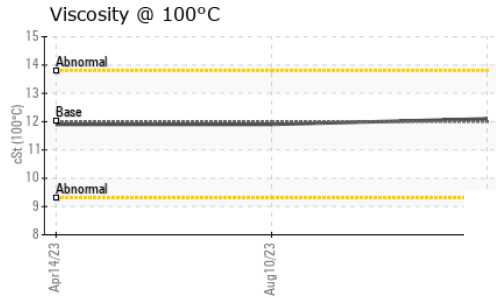
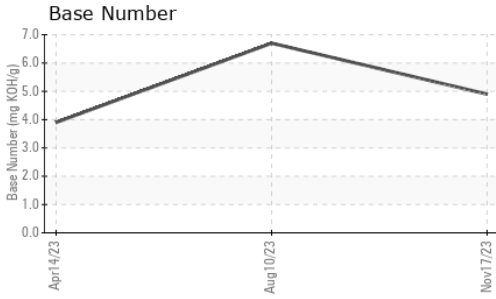
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.5</b>	0.3	0.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.7</b>	10.1	13.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>24.7</b>	20.7	27.9

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>21.8</b>	17.5	24.8
Base Number (BN)	mg KOH/g	ASTM D2896	<b>4.9</b>	6.7	3.9

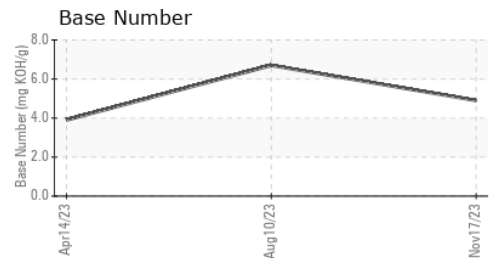
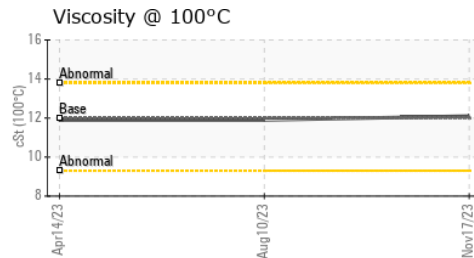
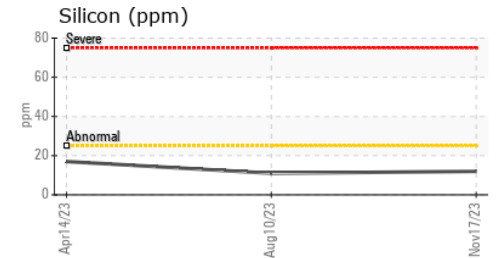
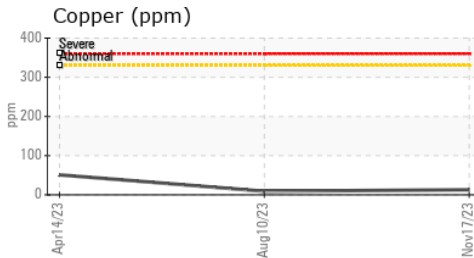
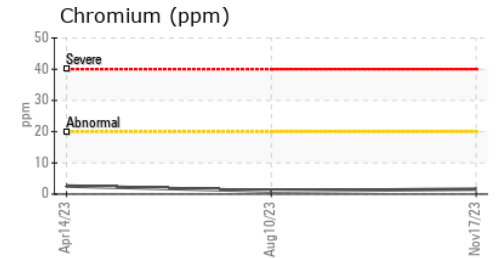
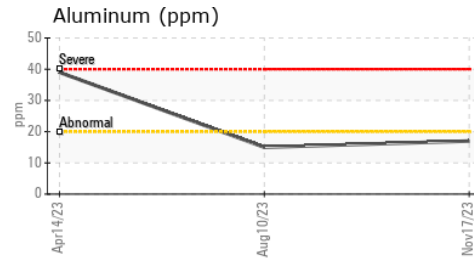
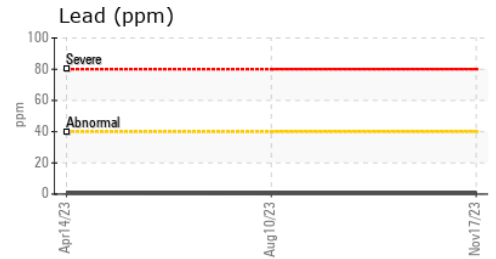
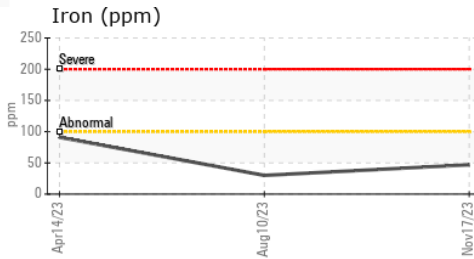
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	12.1	11.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0093335 **Received** : 15 Dec 2023  
**Lab Number** : 06036551 **Diagnosed** : 18 Dec 2023  
**Unique Number** : 10791780 **Diagnostician** : Wes Davis  
**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)

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F: