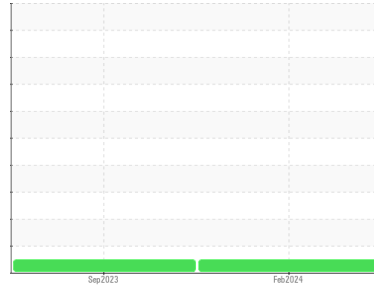


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**

 Machine Id  
**738658**

 Component  
**Diesel Engine**

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

## DIAGNOSIS

### Recommendation

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

### Wear

All component wear rates are normal.

### 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>PCA0105601</b>	PCA0099113	---
Sample Date	Client Info		<b>16 Feb 2024</b>	14 Sep 2023	---
Machine Age	mls	Client Info	<b>185866</b>	53000	---
Oil Age	mls	Client Info	<b>0</b>	53000	---
Oil Changed	Client Info		<b>N/A</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>58</b>	67	---
Chromium	ppm	ASTM D5185m >20	<b>3</b>	4	---
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m >20	<b>21</b>	38	---
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >330	<b>32</b>	55	---
Tin	ppm	ASTM D5185m >15	<b>1</b>	2	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>4</b>	6	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>65</b>	64	---
Manganese	ppm	ASTM D5185m 0	<b>1</b>	2	---
Magnesium	ppm	ASTM D5185m 950	<b>905</b>	899	---
Calcium	ppm	ASTM D5185m 1050	<b>1083</b>	1389	---
Phosphorus	ppm	ASTM D5185m 995	<b>985</b>	989	---
Zinc	ppm	ASTM D5185m 1180	<b>1217</b>	1256	---
Sulfur	ppm	ASTM D5185m 2600	<b>2238</b>	2596	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>9</b>	8	---
Sodium	ppm	ASTM D5185m	<b>2</b>	6	---
Potassium	ppm	ASTM D5185m >20	<b>42</b>	83	---

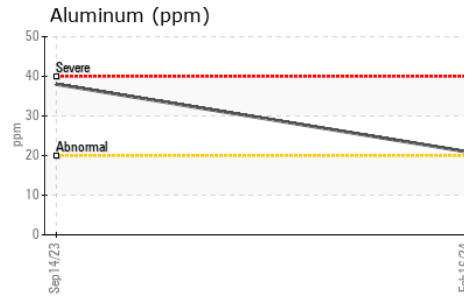
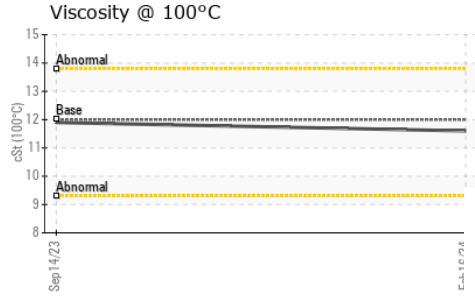
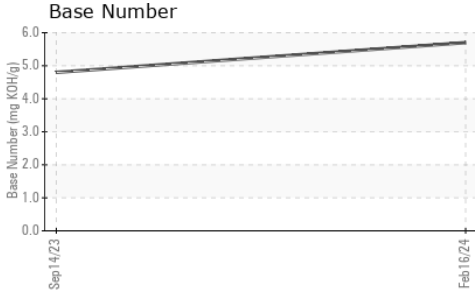
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.6</b>	1.1	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>12.3</b>	15.2	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>24.8</b>	29.7	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>24.0</b>	28.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>5.7</b>	4.8	---

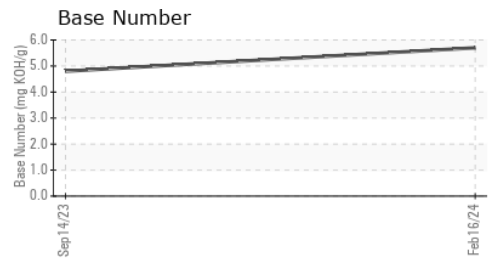
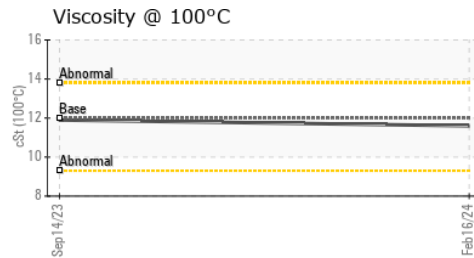
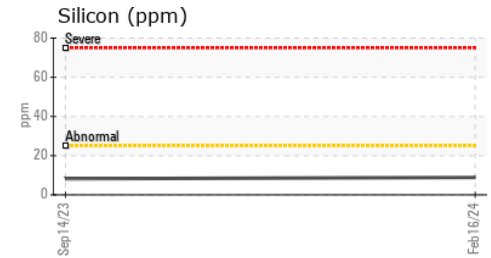
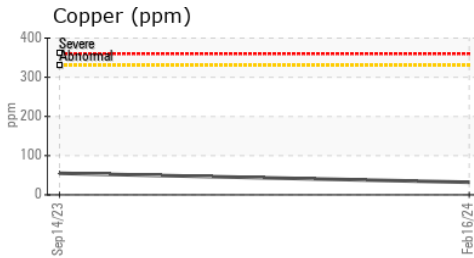
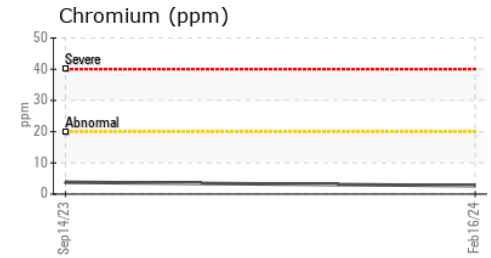
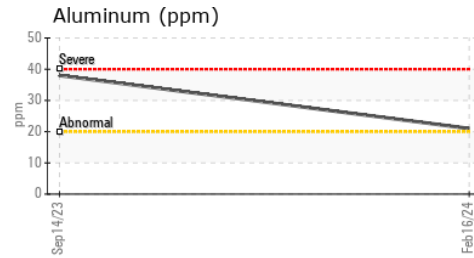
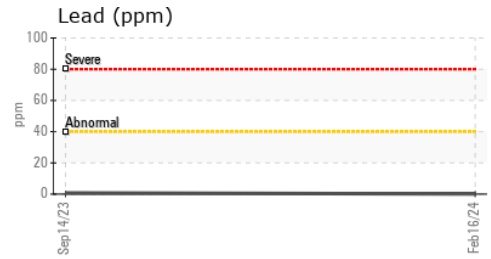
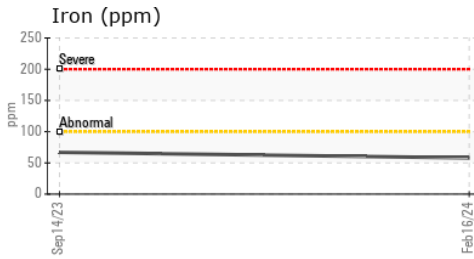
# OIL ANALYSIS REPORT



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>11.6</b>	11.9	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0105601      **Received** : 04 Mar 2024  
**Lab Number** : **06107186**      **Tested** : 05 Mar 2024  
**Unique Number** : 10910683      **Diagnosed** : 05 Mar 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #116**  
 1197 NORTH MAIN ROAD  
 VINELAND, NJ  
 US 08360  
 Contact: JOHN KEEN  
 jkeen@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)

F: (856)696-5629