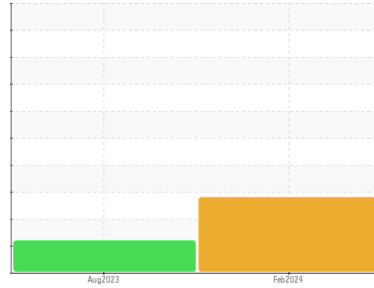


# OIL ANALYSIS REPORT

## Sample Rating Trend



Machine Id  
**131674**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

## DIAGNOSIS

- Recommendation**  
 We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor.
- Wear**  
 All component wear rates are normal.
- Contamination**  
 Fuel content negligible. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.
- Fluid Condition**  
 The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0118836</b>	PCA0103040	---
Sample Date	Client Info	<b>09 Feb 2024</b>	02 Aug 2023	---
Machine Age	mls	<b>0</b>	235	---
Oil Age	mls	<b>0</b>	0	---
Oil Changed	Client Info	<b>N/A</b>	N/A	---
Sample Status		<b>ABNORMAL</b>	ABNORMAL	---

## CONTAMINATION

method	limit/base	current	history1	history2
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>19</b>	6	---
Chromium	ppm ASTM D5185m >20	<b>&lt;1</b>	<1	---
Nickel	ppm ASTM D5185m >4	<b>0</b>	0	---
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm ASTM D5185m >3	<b>0</b>	<1	---
Aluminum	ppm ASTM D5185m >20	<b>9</b>	5	---
Lead	ppm ASTM D5185m >40	<b>&lt;1</b>	1	---
Copper	ppm ASTM D5185m >330	<b>53</b>	31	---
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	<1	---
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	<1	---
Cadmium	ppm ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	<b>40</b>	168	---
Barium	ppm ASTM D5185m 0	<b>1</b>	0	---
Molybdenum	ppm ASTM D5185m 50	<b>129</b>	125	---
Manganese	ppm ASTM D5185m 0	<b>11</b>	6	---
Magnesium	ppm ASTM D5185m 950	<b>357</b>	393	---
Calcium	ppm ASTM D5185m 1050	<b>1238</b>	1269	---
Phosphorus	ppm ASTM D5185m 995	<b>616</b>	646	---
Zinc	ppm ASTM D5185m 1180	<b>701</b>	793	---
Sulfur	ppm ASTM D5185m 2600	<b>2538</b>	3475	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>39</b>	33	---
Sodium	ppm ASTM D5185m	<b>9</b>	4	---
Potassium	ppm ASTM D5185m >20	<b>1</b>	6	---
Fuel	% ASTM D3524 >5	<b>1.6</b>	<1.0	---

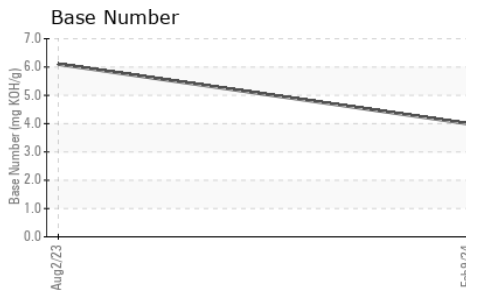
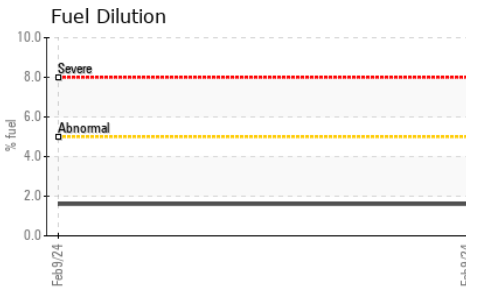
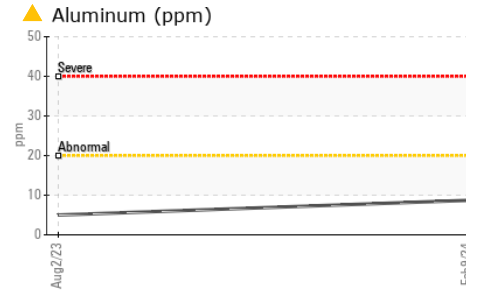
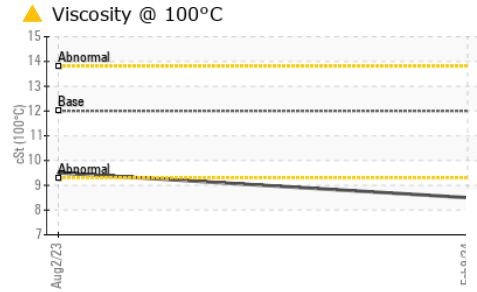
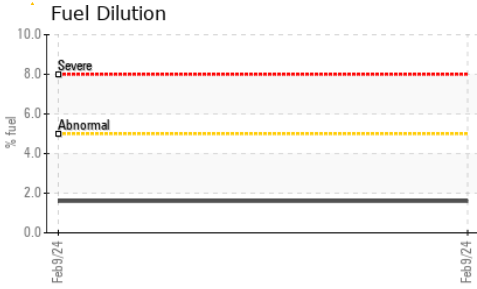
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.1</b>	0.1	---
Nitration	Abs/cm *ASTM D7624 >20	<b>10.0</b>	4.4	---
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>21.5</b>	13.8	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>14.3</b>	7.2	---
Base Number (BN)	mg KOH/g ASTM D2896	<b>4.0</b>	6.1	---

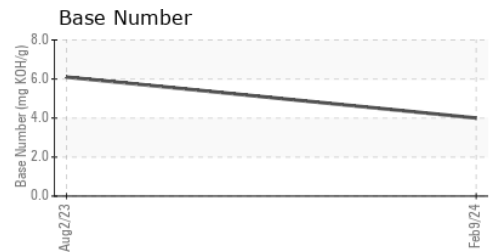
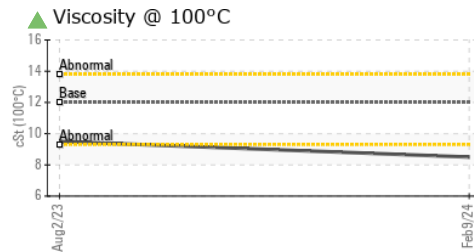
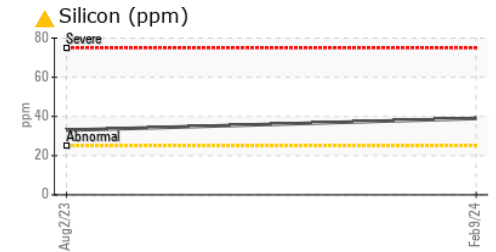
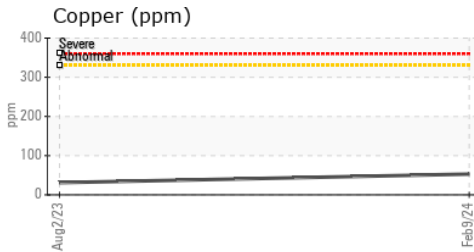
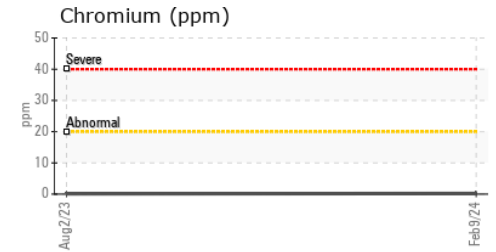
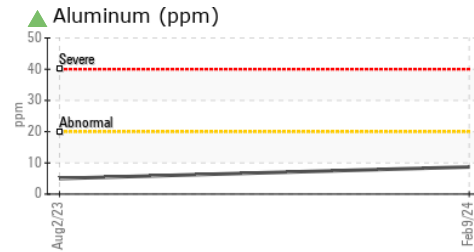
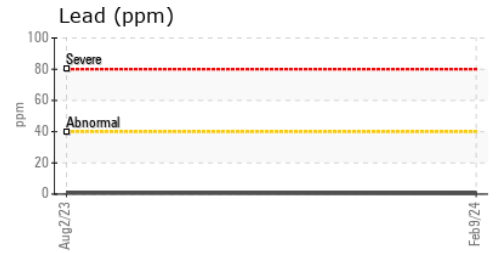
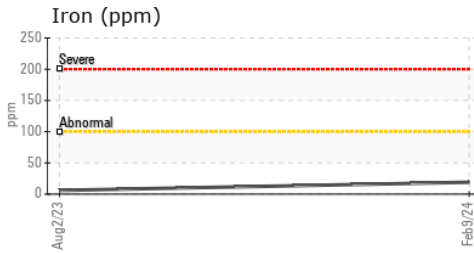
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ MODER	---
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	▲ 8.5	9.5	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0118836 **Received** : 22 Feb 2024  
**Lab Number** : 06096794 **Tested** : 26 Feb 2024  
**Unique Number** : 10889647 **Diagnosed** : 26 Feb 2024 - Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, TBN )

**MILLER TRUCK LEASING #119**  
 39 INDUSTRIAL AVE  
 HASBROUCK HEIGHTS, NJ  
 US 07604  
 Contact: MIKE LONGETTE  
 mlongette@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: (201)528-7053