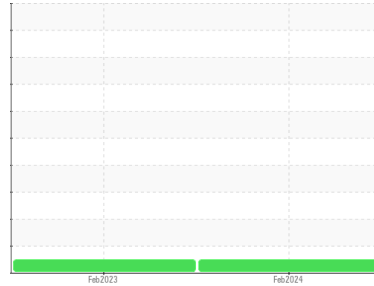


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**

 Machine Id  
**228294**

 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**

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>PCA0110664</b>	PCA0083843	---
Sample Date	Client Info			<b>18 Feb 2024</b>	12 Feb 2023	---
Machine Age	mls	Client Info		<b>78020</b>	34690	---
Oil Age	mls	Client Info		<b>43330</b>	34690	---
Oil Changed	Client Info			<b>Changed</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>51</b>	46	---
Chromium	ppm	ASTM D5185m	>20	<b>4</b>	3	---
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	1	---
Titanium	ppm	ASTM D5185m		<b>15</b>	5	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>31</b>	33	---
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	3	---
Copper	ppm	ASTM D5185m	>330	<b>113</b>	316	---
Tin	ppm	ASTM D5185m	>15	<b>4</b>	5	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	---

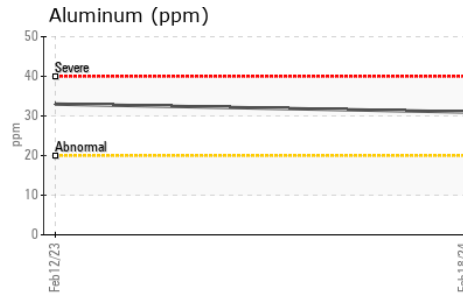
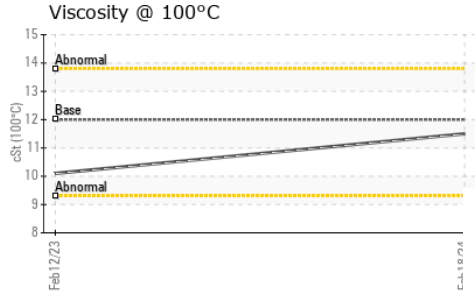
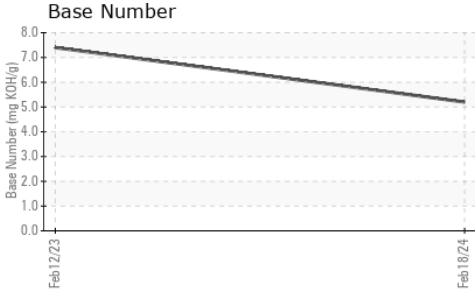
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>5</b>	24	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	50	<b>52</b>	40	---
Manganese	ppm	ASTM D5185m	0	<b>2</b>	4	---
Magnesium	ppm	ASTM D5185m	950	<b>913</b>	503	---
Calcium	ppm	ASTM D5185m	1050	<b>1485</b>	1681	---
Phosphorus	ppm	ASTM D5185m	995	<b>1028</b>	701	---
Zinc	ppm	ASTM D5185m	1180	<b>1327</b>	942	---
Sulfur	ppm	ASTM D5185m	2600	<b>2479</b>	1938	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>5</b>	8	---
Sodium	ppm	ASTM D5185m		<b>3</b>	6	---
Potassium	ppm	ASTM D5185m	>20	<b>62</b>	72	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.1</b>	11.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.7</b>	23.1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>24.0</b>	25.0	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.2</b>	7.4	---

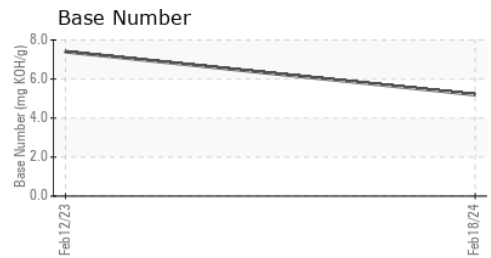
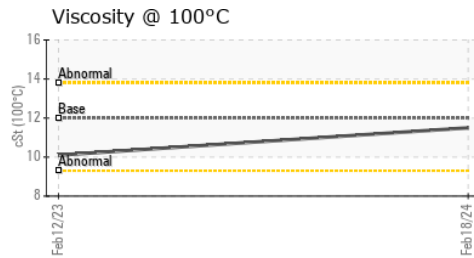
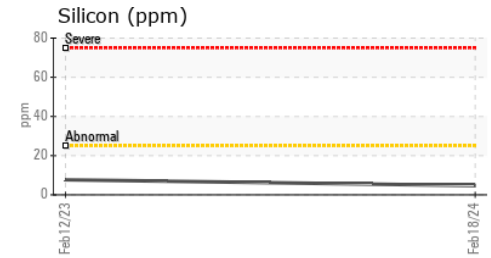
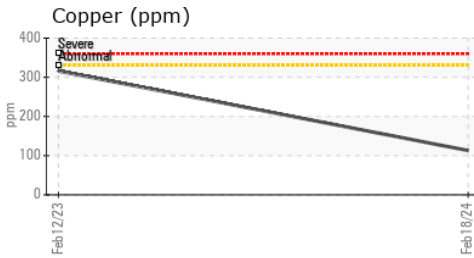
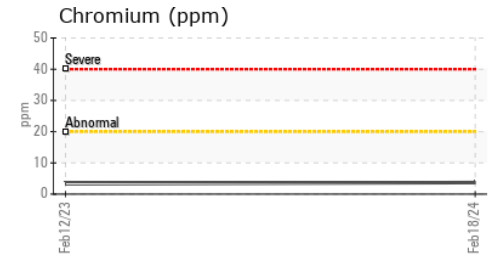
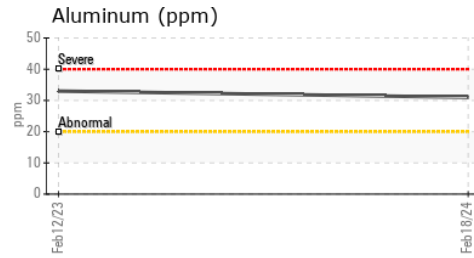
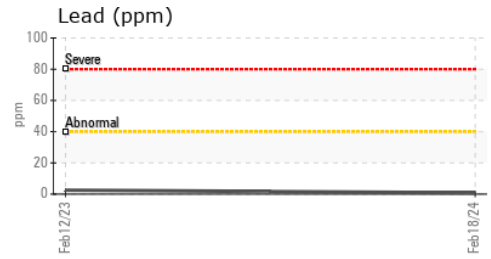
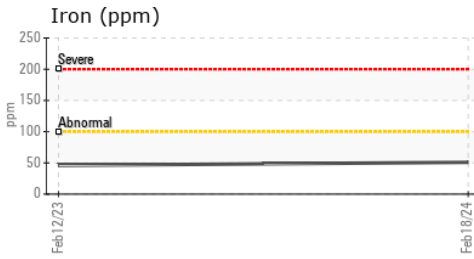
# OIL ANALYSIS REPORT



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	11.5	10.1

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0110664 **Received** : 04 Mar 2024  
**Lab Number** : **06106947** **Tested** : 04 Mar 2024  
**Unique Number** : 10910444 **Diagnosed** : 04 Mar 2024 - 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)