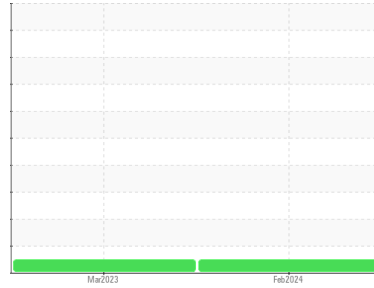


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**638682**

Component  
**Diesel Engine**

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

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### 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. No other contaminants were detected in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0116860</b>	PCA0094505	---
Sample Date	Client Info		<b>16 Feb 2024</b>	02 Mar 2023	---
Machine Age	mls	Client Info	<b>111500</b>	51304	---
Oil Age	mls	Client Info	<b>50000</b>	0	---
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>63</b>	61	---
Chromium	ppm	ASTM D5185m >20	<b>4</b>	5	---
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>31</b>	70	---
Lead	ppm	ASTM D5185m >40	<b>0</b>	4	---
Copper	ppm	ASTM D5185m >330	<b>79</b>	397	---
Tin	ppm	ASTM D5185m >15	<b>2</b>	4	---
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>4</b>	21	---
Barium	ppm	ASTM D5185m 0	<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>73</b>	41	---
Manganese	ppm	ASTM D5185m 0	<b>2</b>	4	---
Magnesium	ppm	ASTM D5185m 950	<b>887</b>	565	---
Calcium	ppm	ASTM D5185m 1050	<b>1334</b>	1571	---
Phosphorus	ppm	ASTM D5185m 995	<b>967</b>	693	---
Zinc	ppm	ASTM D5185m 1180	<b>1216</b>	898	---
Sulfur	ppm	ASTM D5185m 2600	<b>2384</b>	1813	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>8</b>	9	---
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	6	---
Potassium	ppm	ASTM D5185m >20	<b>85</b>	202	---

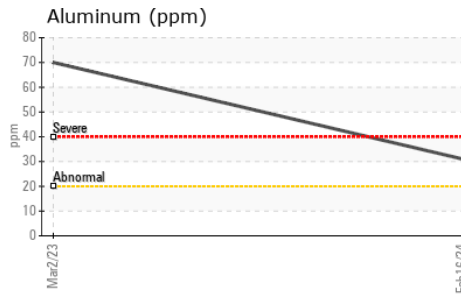
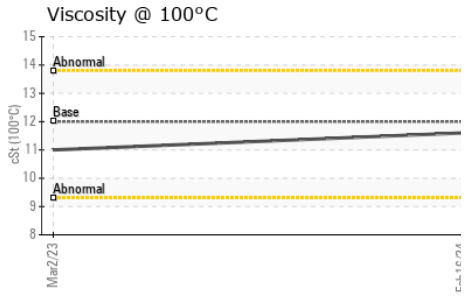
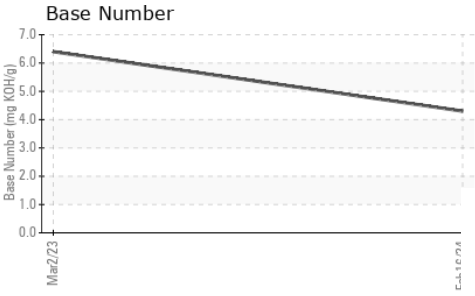
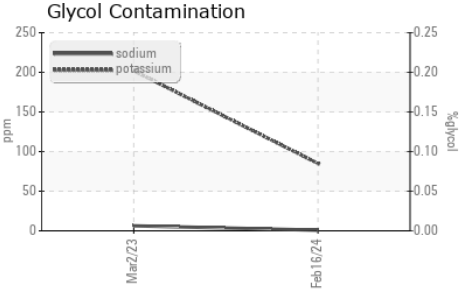
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.5</b>	1	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>14.5</b>	13.6	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>26.9</b>	25.1	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>25.2</b>	26.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>4.3</b>	6.4	---

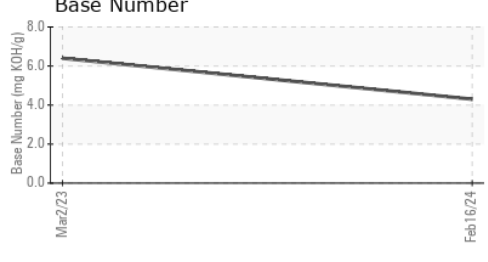
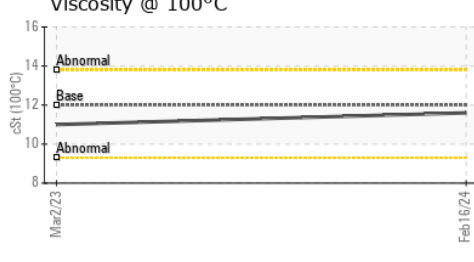
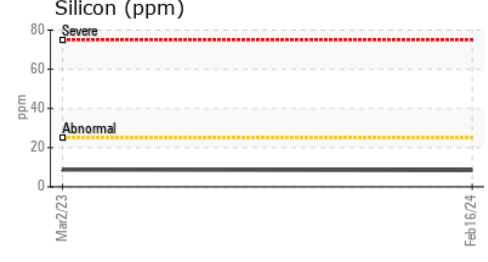
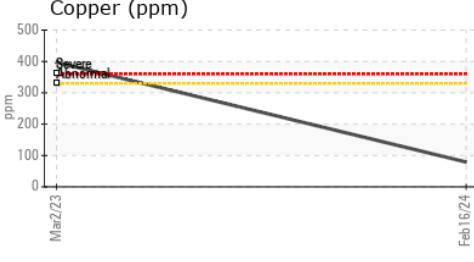
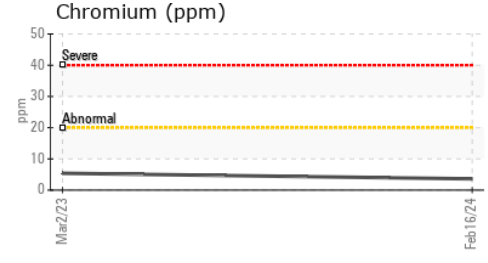
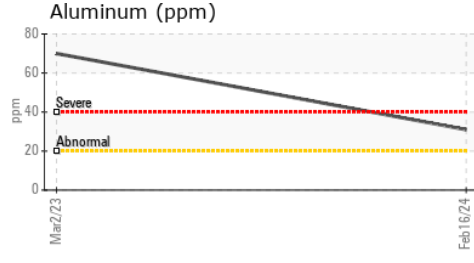
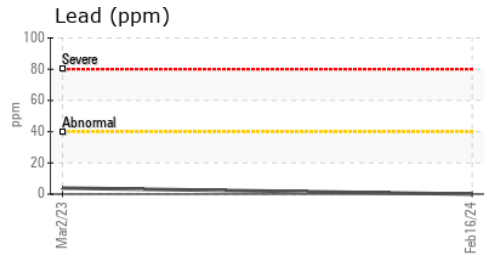
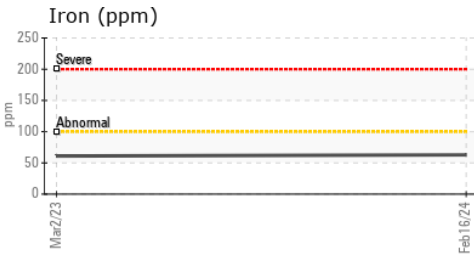
# OIL ANALYSIS REPORT



PARAMETER	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	11.6	11.0

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0116860 **Received** : 21 Mar 2024  
**Lab Number** : 06124705 **Tested** : 22 Mar 2024  
**Unique Number** : 10938856 **Diagnosed** : 23 Mar 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #114**  
 63 REPAUPO STATION ROAD  
 LOGAN TOWNSHIP, NJ  
 US 08085

Contact: ED DAVIS  
 edavis@millertransgroup.com  
 T: (856)214-3521  
 F: (856)214-3663

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)