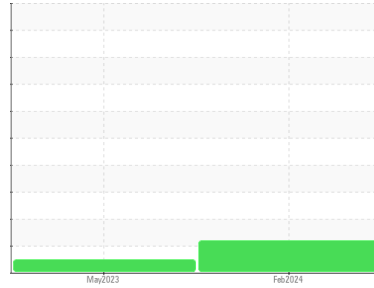


# OIL ANALYSIS REPORT

Sample Rating Trend

**DEGRADATION**

Machine Id  
**702890**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**



## DIAGNOSIS

- Recommendation**  
 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**  
 There is no indication of any contamination in the oil.
- Fluid Condition**  
 The BN level is low. 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>PCA0116895</b>	PCA0097723	---
Sample Date	Client Info		<b>27 Feb 2024</b>	18 May 2023	---
Machine Age	mls	Client Info	<b>416421</b>	361798	---
Oil Age	mls	Client Info	<b>41984</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</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>88</b>	19	---
Chromium	ppm	ASTM D5185m >20	<b>3</b>	<1	---
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>14</b>	3	---
Lead	ppm	ASTM D5185m >40	<b>19</b>	0	---
Copper	ppm	ASTM D5185m >330	<b>2</b>	<1	---
Tin	ppm	ASTM D5185m >15	<b>2</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>16</b>	46	---
Barium	ppm	ASTM D5185m 0	<b>2</b>	11	---
Molybdenum	ppm	ASTM D5185m 50	<b>65</b>	64	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m 950	<b>862</b>	876	---
Calcium	ppm	ASTM D5185m 1050	<b>1531</b>	1250	---
Phosphorus	ppm	ASTM D5185m 995	<b>1135</b>	1046	---
Zinc	ppm	ASTM D5185m 1180	<b>1322</b>	1290	---
Sulfur	ppm	ASTM D5185m 2600	<b>3216</b>	3883	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>8</b>	3	---
Sodium	ppm	ASTM D5185m	<b>0</b>	1	---
Potassium	ppm	ASTM D5185m >20	<b>8</b>	3	---

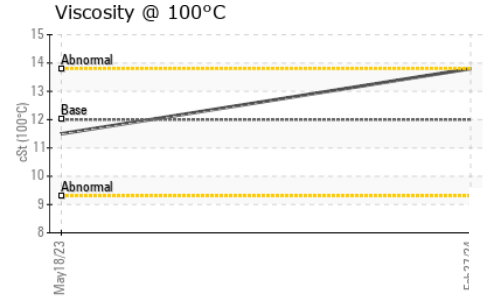
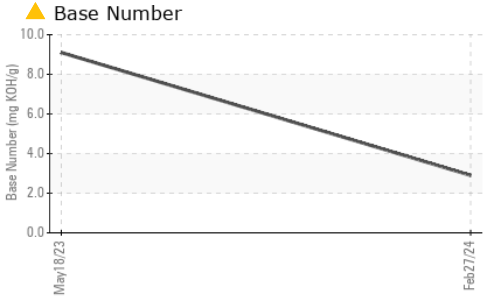
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1.1</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>16.6</b>	7.0	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>35.0</b>	18.8	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>42.0</b>	14.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>▲ 2.9</b>	9.1	---

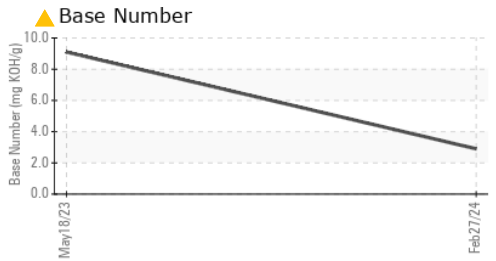
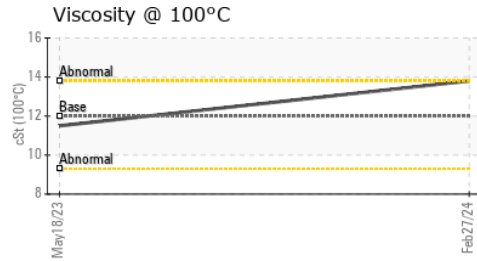
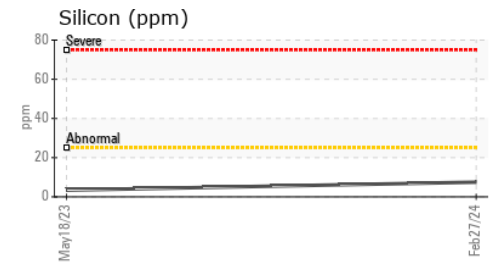
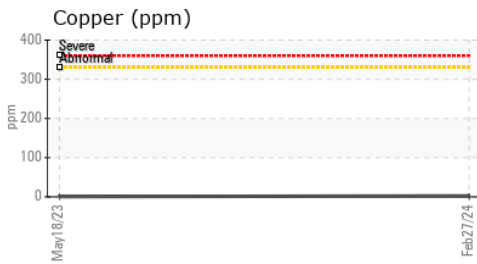
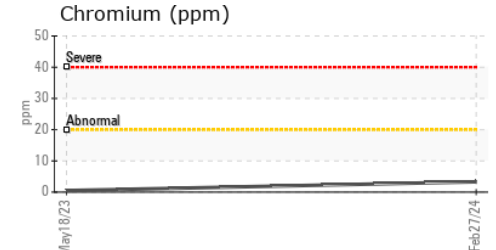
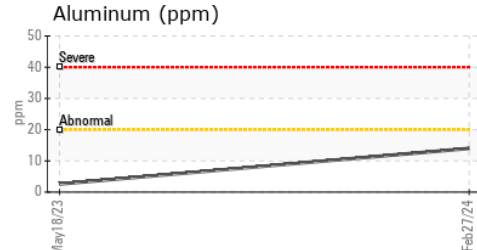
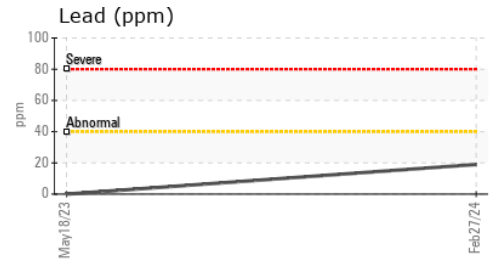
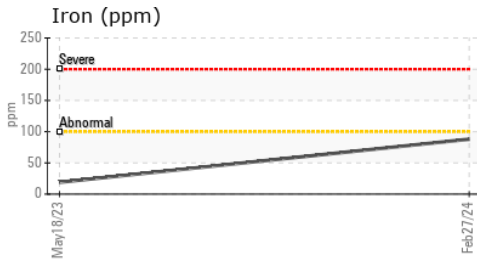
# OIL ANALYSIS REPORT



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>13.8</b>	11.5	---

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0116895 **Received** : 21 Mar 2024  
**Lab Number** : **06124539** **Tested** : 21 Mar 2024  
**Unique Number** : 10938690 **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)