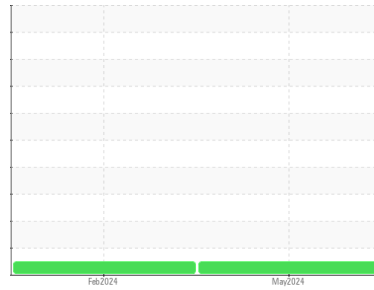


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**243390**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

### 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

Metal levels are typical for a new component breaking in.

#### 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>PCA0124065</b>	PCA0110173	---
Sample Date	Client Info		<b>17 May 2024</b>	21 Feb 2024	---
Machine Age	mls	Client Info	<b>27831</b>	21001	---
Oil Age	mls	Client Info	<b>0</b>	21001	---
Oil Changed	Client Info		<b>Changed</b>	Not Changd	---
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>110</b>	83	---
Chromium	ppm	ASTM D5185m >20	<b>5</b>	3	---
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	---
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>53</b>	38	---
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m >330	<b>55</b>	52	---
Tin	ppm	ASTM D5185m >15	<b>5</b>	5	---
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>24</b>	30	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185m 50	<b>45</b>	45	---
Manganese	ppm	ASTM D5185m 0	<b>10</b>	10	---
Magnesium	ppm	ASTM D5185m 950	<b>583</b>	596	---
Calcium	ppm	ASTM D5185m 1050	<b>1756</b>	1639	---
Phosphorus	ppm	ASTM D5185m 995	<b>837</b>	835	---
Zinc	ppm	ASTM D5185m 1180	<b>977</b>	995	---
Sulfur	ppm	ASTM D5185m 2600	<b>2691</b>	2840	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>37</b>	15	---
Sodium	ppm	ASTM D5185m	<b>9</b>	8	---
Potassium	ppm	ASTM D5185m >20	<b>159</b>	123	---

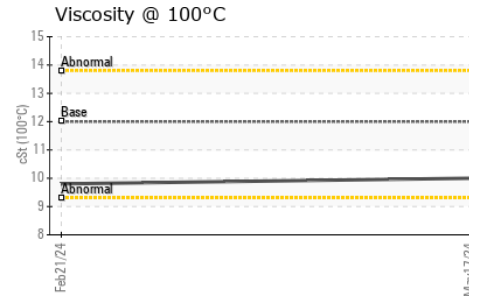
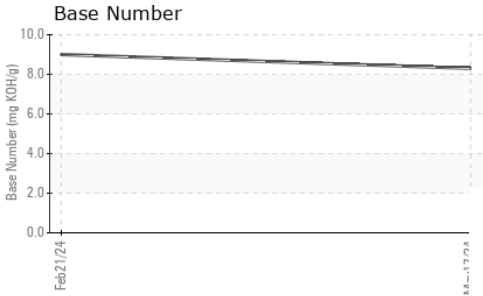
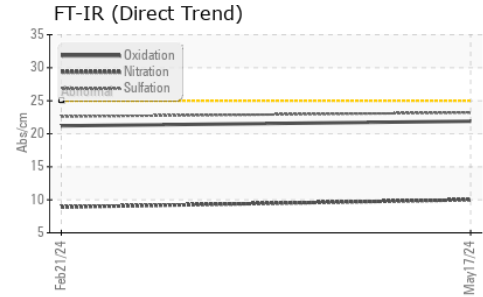
### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.7</b>	0.5	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.0</b>	8.9	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>23.2</b>	22.6	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>21.9</b>	21.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.3</b>	9.0	---

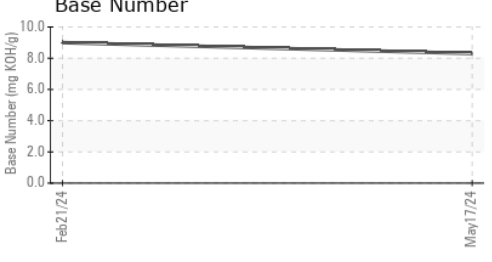
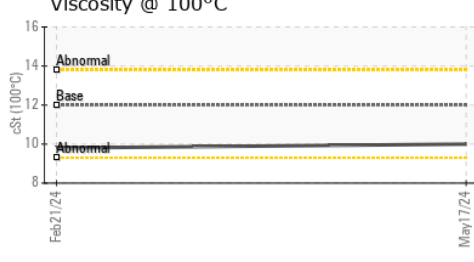
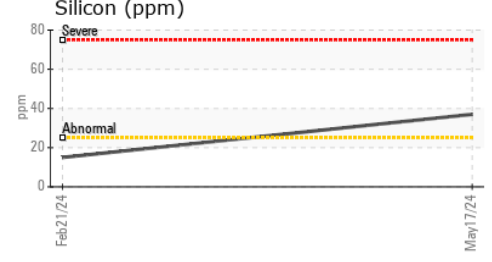
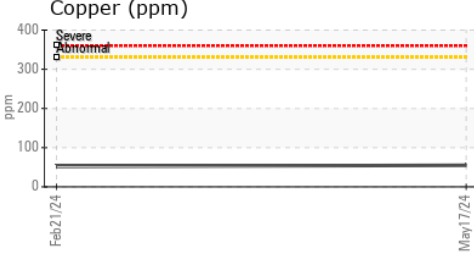
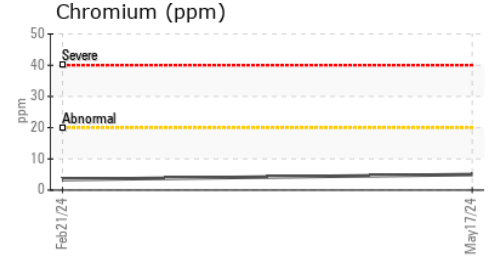
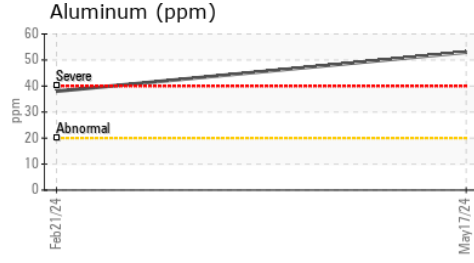
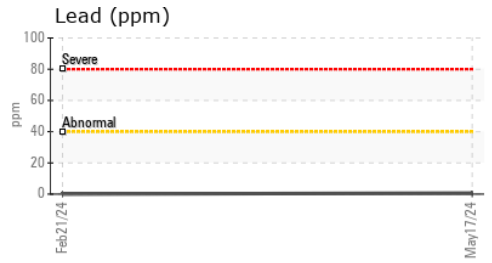
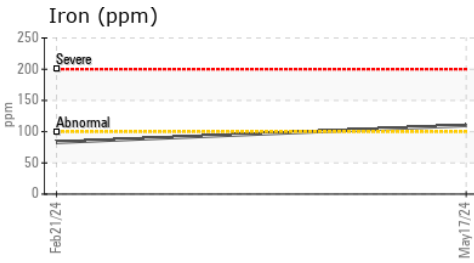
# OIL ANALYSIS REPORT



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	10.00	9.8

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0124065      **Received** : 24 May 2024  
**Lab Number** : **06191584**      **Tested** : 31 May 2024  
**Unique Number** : 11048336      **Diagnosed** : 31 May 2024 - Sean Felton  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**MILLER TRUCK LEASING #121**  
 107 HOW LANE  
 NEW BRUNSWICK, NJ  
 US 08901  
 Contact: Anthony Cursi  
 acursi@millertransgroup.com  
 T: (732)358-4027  
 F: (732)400-8475

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)