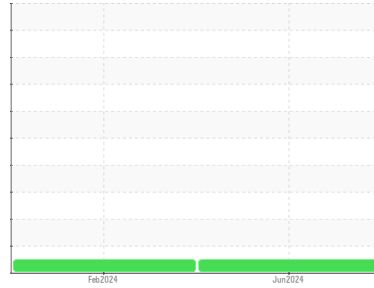


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**(66463Z) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A624273**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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 acceptable for the time in service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0119074</b>	PCA0105885	---
Sample Date	Client Info		<b>04 Jun 2024</b>	19 Feb 2024	---
Machine Age	mls	Client Info	<b>41846</b>	20760	---
Oil Age	mls	Client Info	<b>41846</b>	20760	---
Oil Changed	Client Info		<b>Changed</b>	Oil Added	---
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 >80	<b>66</b>	43	---
Chromium	ppm	ASTM D5185m >5	<b>5</b>	3	---
Nickel	ppm	ASTM D5185m >2	<b>2</b>	3	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m >30	<b>83</b>	51	---
Lead	ppm	ASTM D5185m >30	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >150	<b>248</b>	259	---
Tin	ppm	ASTM D5185m >5	<b>13</b>	13	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>27</b>	40	---
Barium	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>48</b>	45	---
Manganese	ppm	ASTM D5185m 0	<b>4</b>	4	---
Magnesium	ppm	ASTM D5185m 950	<b>586</b>	552	---
Calcium	ppm	ASTM D5185m 1050	<b>1673</b>	1694	---
Phosphorus	ppm	ASTM D5185m 995	<b>887</b>	777	---
Zinc	ppm	ASTM D5185m 1180	<b>941</b>	916	---
Sulfur	ppm	ASTM D5185m 2600	<b>2229</b>	2341	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>9</b>	9	---
Sodium	ppm	ASTM D5185m	<b>3</b>	6	---
Potassium	ppm	ASTM D5185m >20	<b>223</b>	155	---

### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.7</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.4</b>	8.9	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>23.1</b>	22.8	---

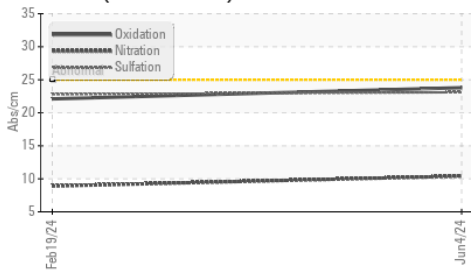
### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>23.8</b>	22.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>7.3</b>	8.2	---

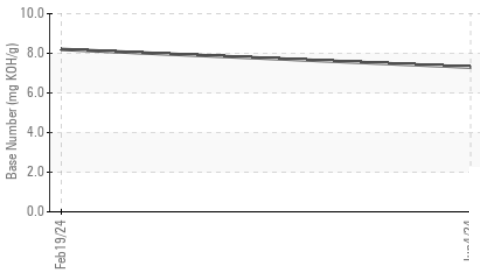


# OIL ANALYSIS REPORT

FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

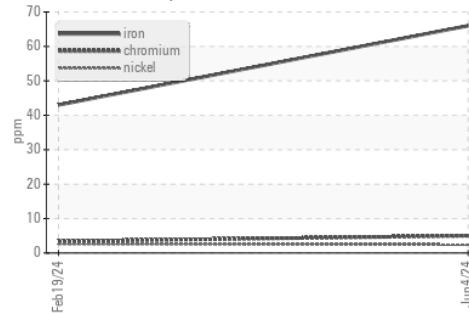


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

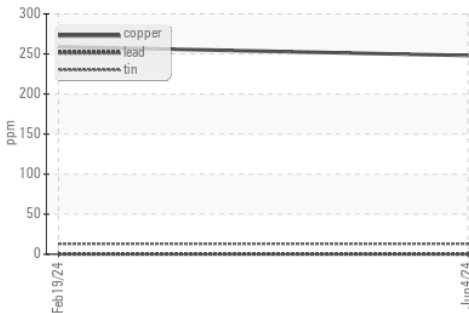
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	10.0	9.7

## GRAPHS

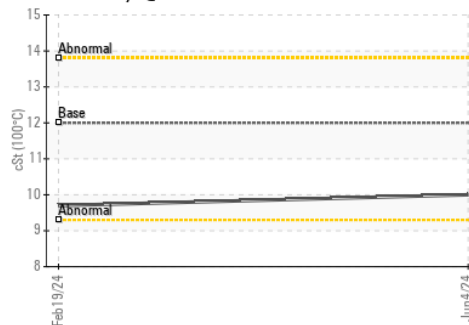
Ferrous Alloys



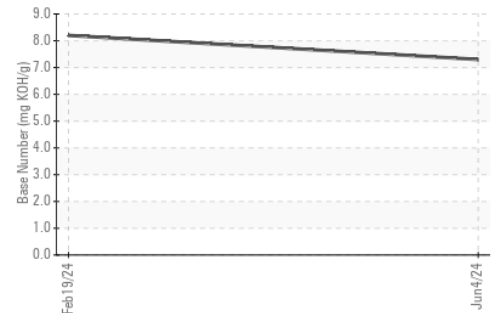
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0119074  
**Lab Number** : 06202236  
**Unique Number** : 11069697  
**Test Package** : FLEET

**Received** : 06 Jun 2024  
**Tested** : 11 Jun 2024  
**Diagnosed** : 11 Jun 2024 - Sean Felton

**Transervice - Shop 1361 - Berkeley-Windsor**  
 4400 State Road 19  
 Windsor, WI  
 US 53598

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)

Contact: Mike Hurda  
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