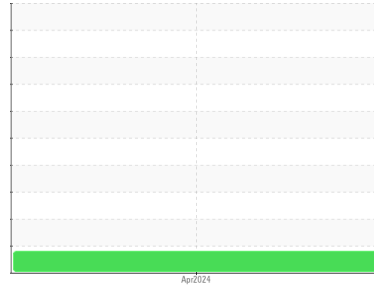


# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**(69926Z) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A624029**  
 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

The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other 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. 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 suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0123383</b>	---	---
Sample Date	Client Info			<b>05 Apr 2024</b>	---	---
Machine Age	mls	Client Info		<b>61895</b>	---	---
Oil Age	mls	Client Info		<b>61895</b>	---	---
Oil Changed	Client Info			<b>Changed</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2		<b>NEG</b>	---	---
Glycol	WC Method			<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	<b>83</b>	---	---
Chromium	ppm	ASTM D5185m	>5	<b>9</b>	---	---
Nickel	ppm	ASTM D5185m	>2	<b>2</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>30	<b>84</b>	---	---
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m	>150	<b>▲ 248</b>	---	---
Tin	ppm	ASTM D5185m	>5	<b>7</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---

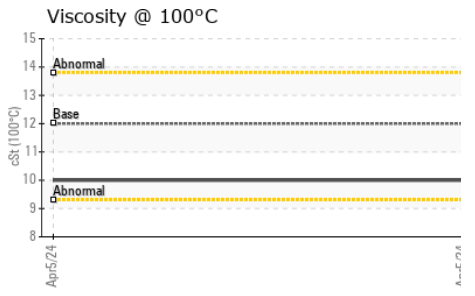
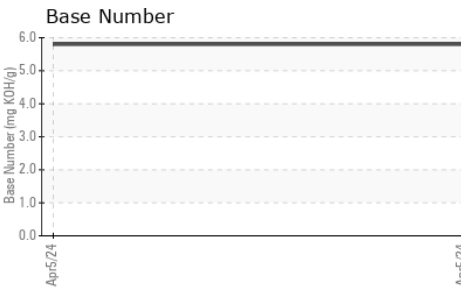
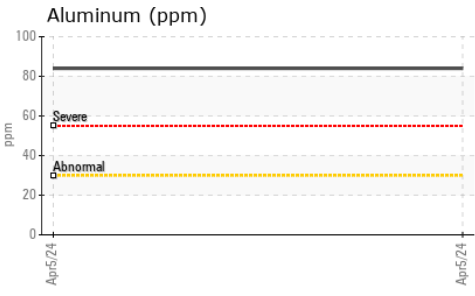
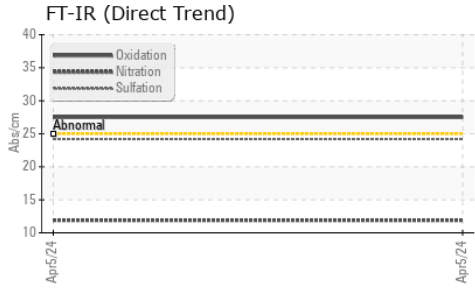
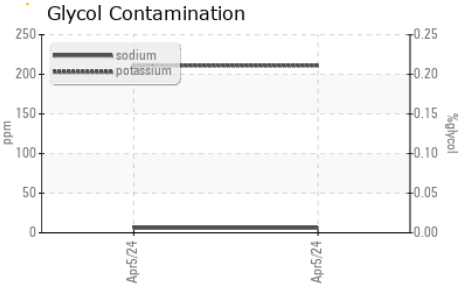
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>28</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>2</b>	---	---
Molybdenum	ppm	ASTM D5185m	50	<b>45</b>	---	---
Manganese	ppm	ASTM D5185m	0	<b>7</b>	---	---
Magnesium	ppm	ASTM D5185m	950	<b>542</b>	---	---
Calcium	ppm	ASTM D5185m	1050	<b>1832</b>	---	---
Phosphorus	ppm	ASTM D5185m	995	<b>775</b>	---	---
Zinc	ppm	ASTM D5185m	1180	<b>918</b>	---	---
Sulfur	ppm	ASTM D5185m	2600	<b>2077</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>11</b>	---	---
Sodium	ppm	ASTM D5185m		<b>6</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>211</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.9</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.2</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>27.5</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.8</b>	---	---

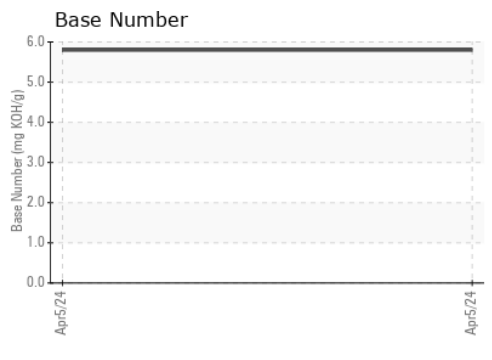
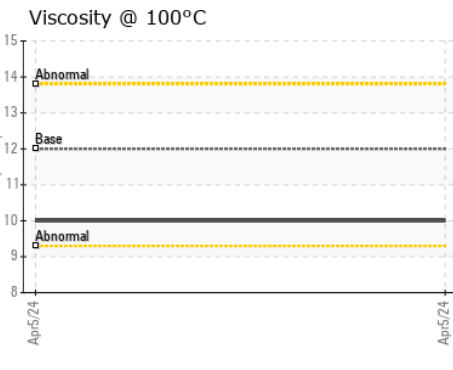
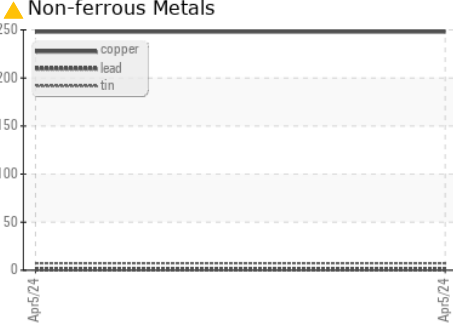
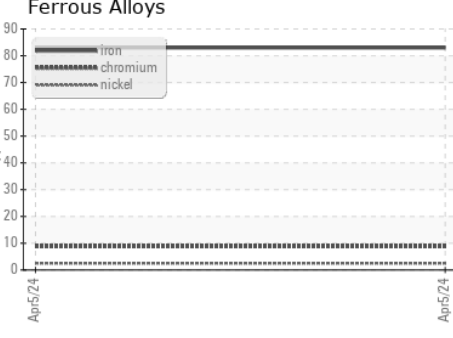
# OIL ANALYSIS REPORT



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	10.0	---

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0123383  
**Lab Number** : 06149857  
**Unique Number** : 10979935  
**Test Package** : FLEET

**Received** : 16 Apr 2024  
**Tested** : 17 Apr 2024  
**Diagnosed** : 18 Apr 2024 - Don Baldrige

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