

# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Area  
**(69959Z) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A624265**  
 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 suitable for further service.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0118787</b>	---	---
Sample Date	Client Info		<b>07 May 2024</b>	---	---
Machine Age	mls	Client Info	<b>60472</b>	---	---
Oil Age	mls	Client Info	<b>60472</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>NORMAL</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>81</b>	---	---
Chromium	ppm	ASTM D5185m >5	<b>6</b>	---	---
Nickel	ppm	ASTM D5185m >2	<b>1</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >30	<b>67</b>	---	---
Lead	ppm	ASTM D5185m >30	<b>2</b>	---	---
Copper	ppm	ASTM D5185m >150	<b>78</b>	---	---
Tin	ppm	ASTM D5185m >5	<b>6</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>23</b>	---	---
Barium	ppm	ASTM D5185m 0	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185m 50	<b>46</b>	---	---
Manganese	ppm	ASTM D5185m 0	<b>5</b>	---	---
Magnesium	ppm	ASTM D5185m 950	<b>585</b>	---	---
Calcium	ppm	ASTM D5185m 1050	<b>1799</b>	---	---
Phosphorus	ppm	ASTM D5185m 995	<b>761</b>	---	---
Zinc	ppm	ASTM D5185m 1180	<b>925</b>	---	---
Sulfur	ppm	ASTM D5185m 2600	<b>2175</b>	---	---

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>8</b>	---	---
Sodium	ppm	ASTM D5185m	<b>9</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>153</b>	---	---

**INFRA-RED**

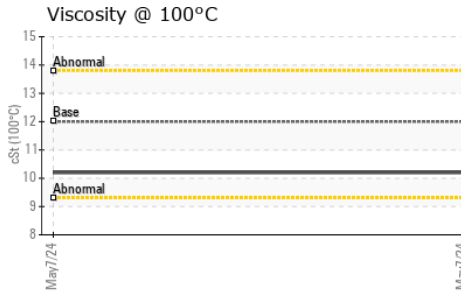
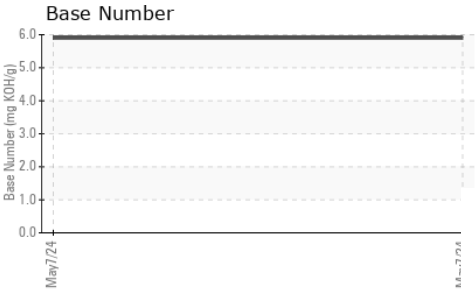
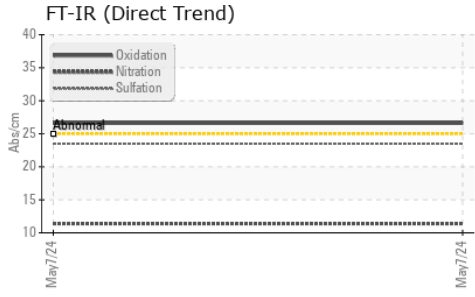
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.6</b>	---	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.4</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>23.5</b>	---	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>26.6</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>5.9</b>	---	---



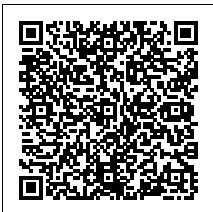
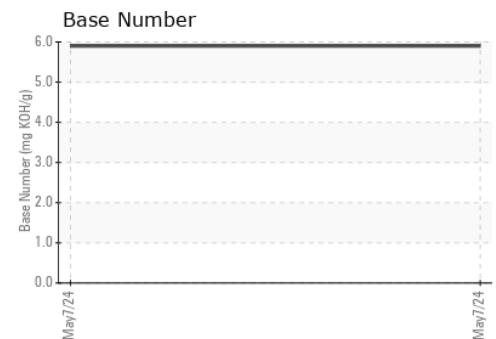
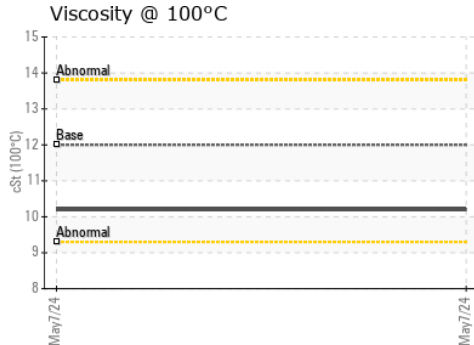
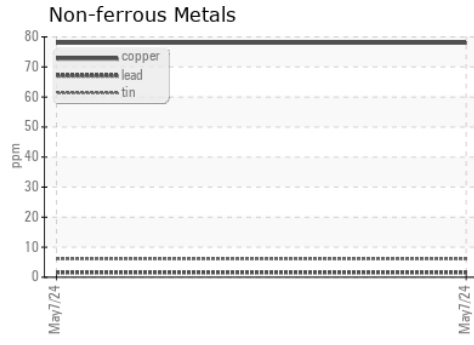
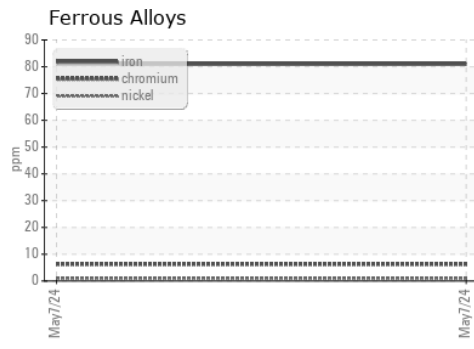
# OIL ANALYSIS REPORT



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	10.2	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0118787  
**Lab Number** : 06176890  
**Unique Number** : 11022943  
**Test Package** : FLEET

**Received** : 13 May 2024  
**Tested** : 14 May 2024  
**Diagnosed** : 14 May 2024 - Sean Felton

**Transervice - Shop 1364 - Berkeley-Mt. Vernon**  
 5100 Lake Terrace NE  
 Mt. Vernon, IL  
 US 62864

Contact: Erien White  
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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)