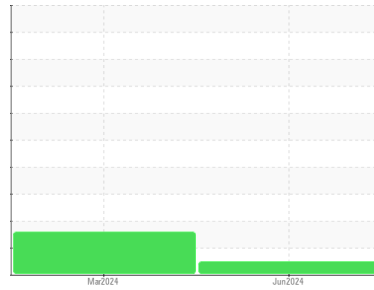


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**


Area  
**Walgreens - Tractor**  
 Machine No  
**[Walgreens - Tractor] 136A624011**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

**DIAGNOSIS**
**Recommendation**

Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**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>PCA0128200</b>	PCA0116434	---
Sample Date	Client Info		<b>21 Jun 2024</b>	05 Mar 2024	---
Machine Age	mls	Client Info	<b>76193</b>	44888	---
Oil Age	mls	Client Info	<b>31305</b>	44888	---
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

**CONTAMINATION**

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.0	<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>28</b>	61	---
Chromium	ppm	ASTM D5185m >20	<b>2</b>	3	---
Nickel	ppm	ASTM D5185m >4	<b>2</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m >20	<b>17</b>	26	---
Lead	ppm	ASTM D5185m >40	<b>3</b>	8	---
Copper	ppm	ASTM D5185m >330	<b>7</b>	20	---
Tin	ppm	ASTM D5185m >15	<b>1</b>	4	---
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>8</b>	38	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	4	---
Molybdenum	ppm	ASTM D5185m 50	<b>63</b>	55	---
Manganese	ppm	ASTM D5185m 0	<b>2</b>	5	---
Magnesium	ppm	ASTM D5185m 950	<b>965</b>	408	---
Calcium	ppm	ASTM D5185m 1050	<b>1230</b>	1586	---
Phosphorus	ppm	ASTM D5185m 995	<b>1073</b>	903	---
Zinc	ppm	ASTM D5185m 1180	<b>1381</b>	1157	---
Sulfur	ppm	ASTM D5185m 2600	<b>3578</b>	2916	---

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>12</b>	▲ 36	---
Sodium	ppm	ASTM D5185m	<b>3</b>	4	---
Potassium	ppm	ASTM D5185m >20	<b>44</b>	79	---

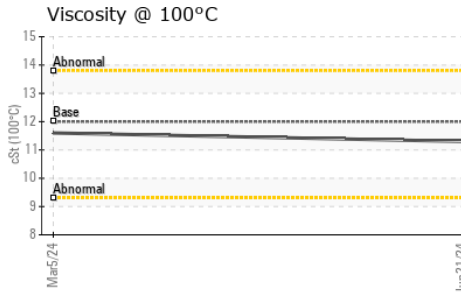
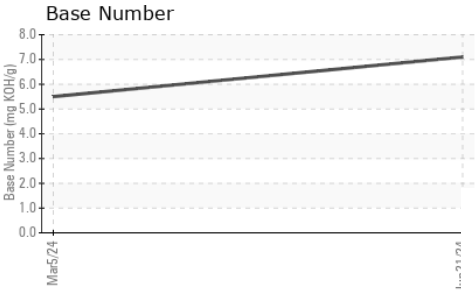
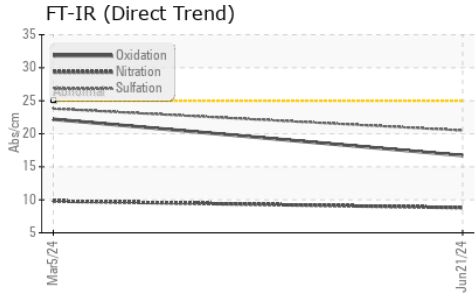
**INFRA-RED**

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.5	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.8</b>	9.8	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.5</b>	23.8	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.7</b>	22.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>7.1</b>	5.5	---

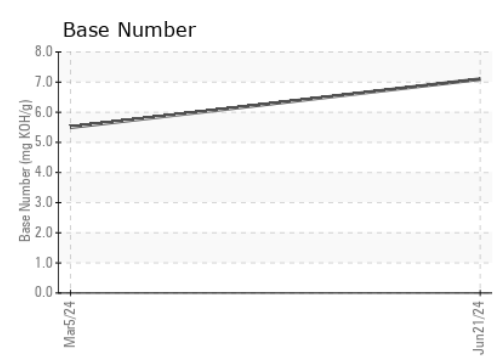
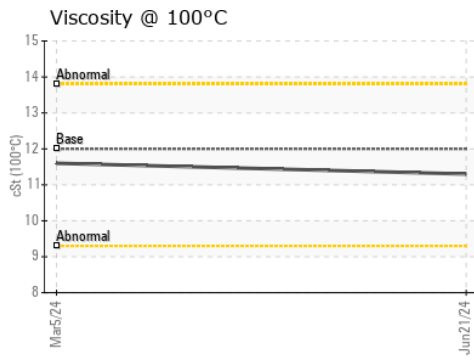
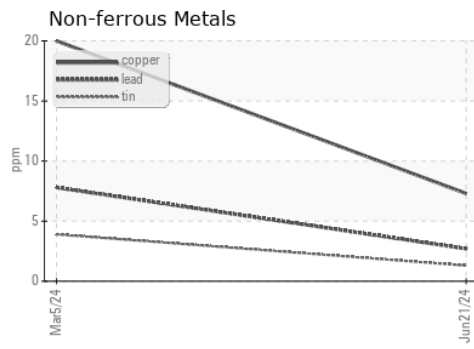
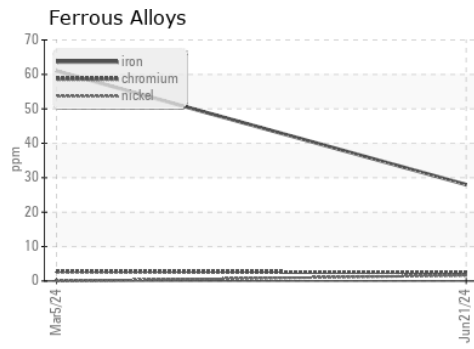
# OIL ANALYSIS REPORT



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	11.3	11.6

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0128200      **Received** : 27 Jun 2024  
**Lab Number** : 06223013      **Tested** : 28 Jun 2024  
**Unique Number** : 11101210      **Diagnosed** : 28 Jun 2024 - Wes Davis  
**Test Package** : FLEET

**Transervice - Shop 1373 - Berkeley-Anderson/Pendergrass**  
 101 Alliance Parkway  
 Willamston, SC  
 US 29697  
 Contact: Sonny Boucher  
 sboucher@transervice.com  
 T: (864)226-2304  
 F: (864)226-2329

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)