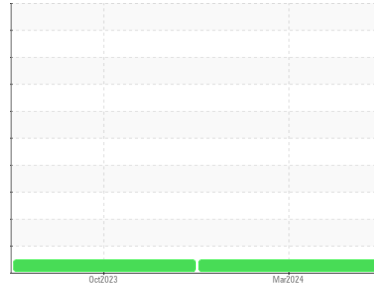


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**


Area  
**(51490Z) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A63310**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 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

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. 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>PCA0106547</b>	PCA0094976	---
Sample Date	Client Info			<b>18 Mar 2024</b>	03 Oct 2023	---
Machine Age	mls	Client Info		<b>164320</b>	103856	---
Oil Age	mls	Client Info		<b>50000</b>	0	---
Oil Changed	Client Info			<b>Changed</b>	Changed	---
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>62</b>	41	---
Chromium	ppm	ASTM D5185m	>5	<b>6</b>	4	---
Nickel	ppm	ASTM D5185m	>2	<b>1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>59</b>	70	---
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>150	<b>105</b>	85	---
Tin	ppm	ASTM D5185m	>5	<b>2</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

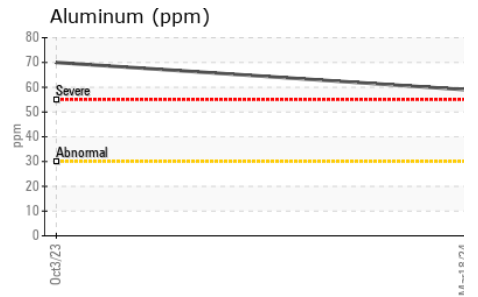
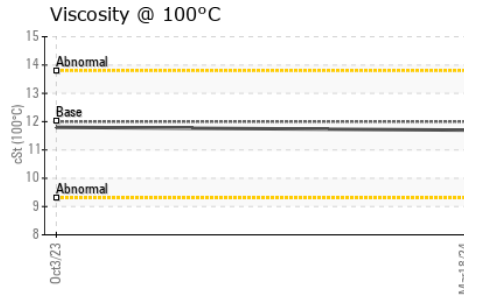
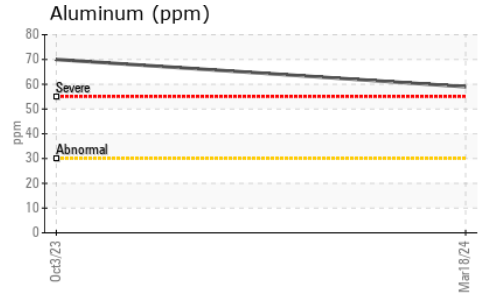
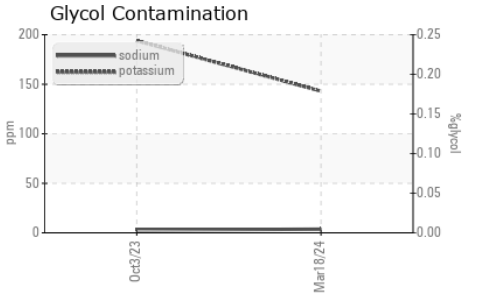
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>16</b>	18	---
Barium	ppm	ASTM D5185m	0	<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m	50	<b>129</b>	112	---
Manganese	ppm	ASTM D5185m	0	<b>2</b>	2	---
Magnesium	ppm	ASTM D5185m	950	<b>1376</b>	866	---
Calcium	ppm	ASTM D5185m	1050	<b>2004</b>	1388	---
Phosphorus	ppm	ASTM D5185m	995	<b>1441</b>	903	---
Zinc	ppm	ASTM D5185m	1180	<b>1870</b>	1171	---
Sulfur	ppm	ASTM D5185m	2600	<b>3881</b>	2185	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>14</b>	8	---
Sodium	ppm	ASTM D5185m		<b>4</b>	3	---
Potassium	ppm	ASTM D5185m	>20	<b>143</b>	194	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.5</b>	10.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.5</b>	24.1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.9</b>	24.1	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.0</b>	4.9	---

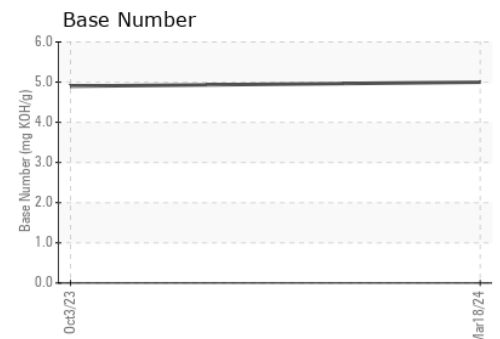
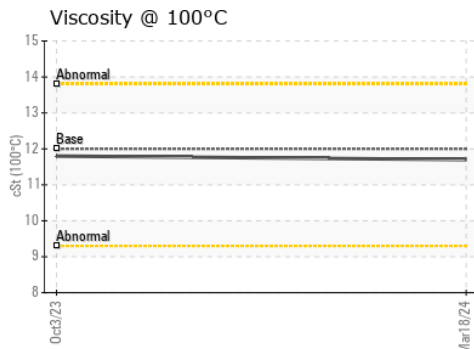
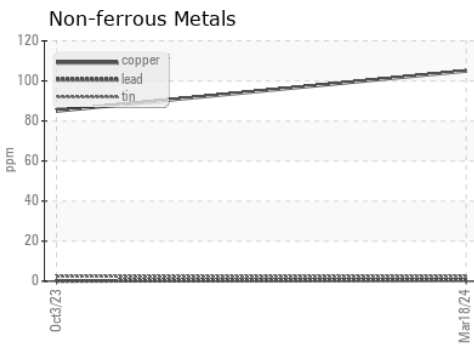
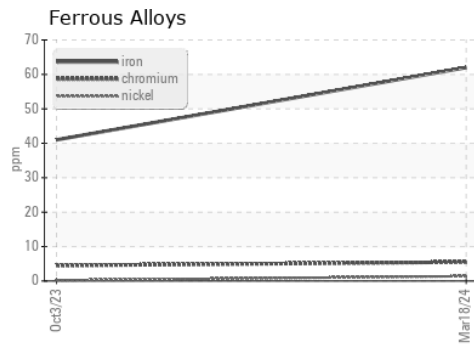
# OIL ANALYSIS REPORT



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	11.7	11.8

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0106547  
**Lab Number** : 06128408  
**Unique Number** : 10942559  
**Test Package** : FLEET  
**Received** : 25 Mar 2024  
**Tested** : 26 Mar 2024  
**Diagnosed** : 28 Mar 2024 - Don Baldrige

**Transervice - Shop 1369 - Berkeley-Waxahachie**  
 710 Ovilla Road  
 Waxahachie, TX  
 US 75167  
 Contact: Robert Beal  
 rbeal@transervice.com  
 T: (972)923-9928  
 F: (972)923-9919

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)