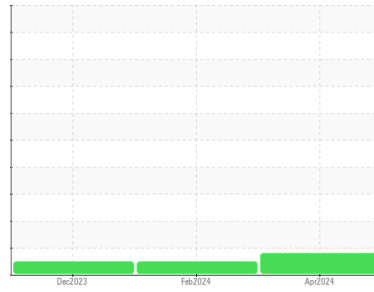


# OIL ANALYSIS REPORT

## Sample Rating Trend



**WEAR**



Area  
**(68538Z) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A624277**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

### DIAGNOSIS

#### Recommendation

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 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>PCA0119067</b>	PCA0105890	PCA0105922
Sample Date	Client Info		<b>30 Apr 2024</b>	02 Feb 2024	12 Dec 2023
Machine Age	mls	Client Info	<b>78315</b>	52659	29551
Oil Age	mls	Client Info	<b>25656</b>	52659	29551
Oil Changed	Client Info		<b>N/A</b>	Changed	Oil Added
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

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

WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >80	<b>25</b>	60	39
Chromium	ppm	ASTM D5185m >5	<b>3</b>	6	4
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	2	1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m >30	<b>47</b>	135	98
Lead	ppm	ASTM D5185m >30	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185m >150	<b>583</b>	150	211
Tin	ppm	ASTM D5185m >5	<b>2</b>	5	5
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1

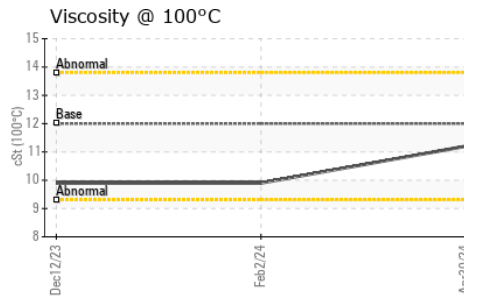
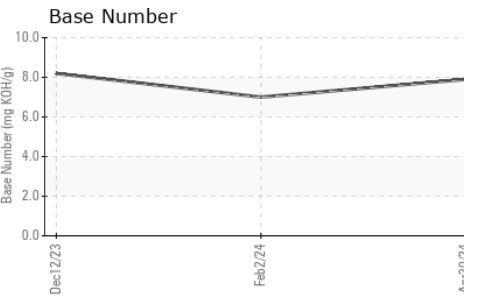
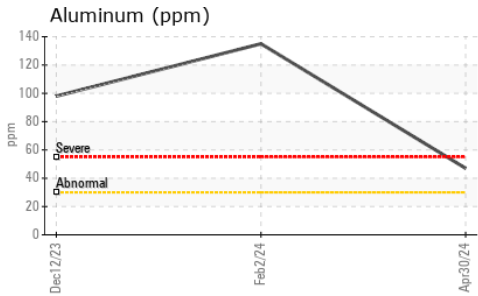
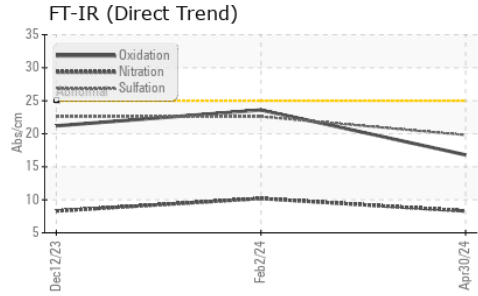
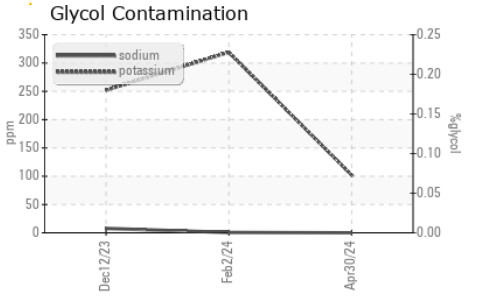
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>12</b>	32	40
Barium	ppm	ASTM D5185m 0	<b>2</b>	0	<1
Molybdenum	ppm	ASTM D5185m 50	<b>65</b>	45	44
Manganese	ppm	ASTM D5185m 0	<b>2</b>	5	4
Magnesium	ppm	ASTM D5185m 950	<b>882</b>	551	641
Calcium	ppm	ASTM D5185m 1050	<b>1202</b>	1637	1829
Phosphorus	ppm	ASTM D5185m 995	<b>1035</b>	736	839
Zinc	ppm	ASTM D5185m 1180	<b>1156</b>	864	1016
Sulfur	ppm	ASTM D5185m 2600	<b>2849</b>	2203	2322

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>5</b>	9	8
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	8
Potassium	ppm	ASTM D5185m >20	<b>102</b>	319	252

INFRA-RED	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.5</b>	0.7	0.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.3</b>	10.2	8.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.8</b>	22.6	22.6

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.8</b>	23.6	21.2
Base Number (BN)	mg KOH/g	ASTM D2896	<b>7.9</b>	7.0	8.2

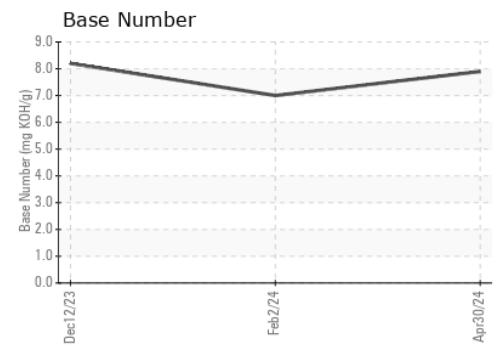
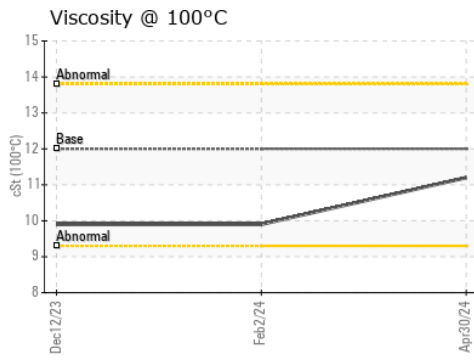
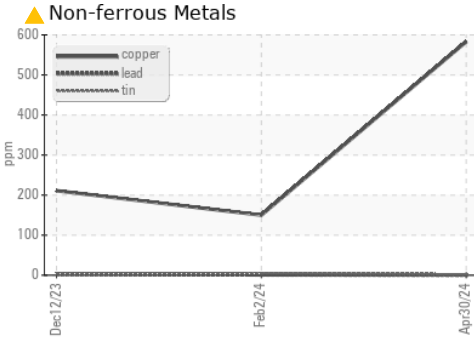
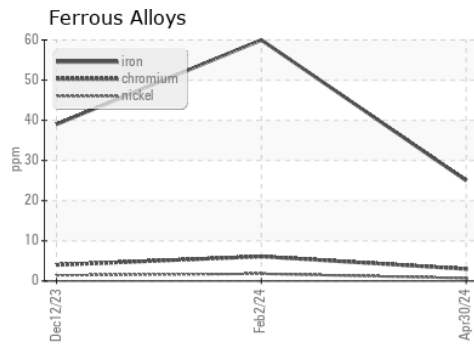
# OIL ANALYSIS REPORT



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

PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	9.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0119067  
**Lab Number** : 06176475  
**Unique Number** : 11022528  
**Test Package** : FLEET

**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)

**Received** : 10 May 2024  
**Tested** : 13 May 2024  
**Diagnosed** : 14 May 2024 - Sean Felton

Contact: Mike Hurda  
 mhurda@transervice.com  
 T: (608)846-2726  
 F: (608)846-0389