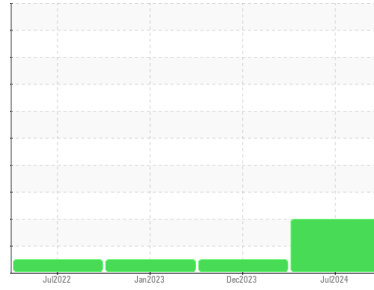


# OIL ANALYSIS REPORT

## Sample Rating Trend



**DEGRADATION**



Area  
**(94689X) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A62048**  
 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 aluminum level is abnormal. All other component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN level is low. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0128168</b>	PCA0111768	PCA0090878
Sample Date	Client Info	<b>05 Jul 2024</b>	19 Dec 2023	19 Jan 2023
Machine Age	mls	<b>631281</b>	577333	433306
Oil Age	mls	<b>53948</b>	44988	60852
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
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>73</b>	34	40
Chromium	ppm ASTM D5185m >5	<b>3</b>	2	2
Nickel	ppm ASTM D5185m >2	<b>0</b>	0	<1
Titanium	ppm ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >30	<b>▲ 32</b>	18	20
Lead	ppm ASTM D5185m >30	<b>0</b>	0	<1
Copper	ppm ASTM D5185m >150	<b>12</b>	6	8
Tin	ppm ASTM D5185m >5	<b>2</b>	2	1
Vanadium	ppm ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	<b>5</b>	1	3
Barium	ppm ASTM D5185m 0	<b>0</b>	1	4
Molybdenum	ppm ASTM D5185m 50	<b>68</b>	60	65
Manganese	ppm ASTM D5185m 0	<b>1</b>	<1	<1
Magnesium	ppm ASTM D5185m 950	<b>954</b>	856	917
Calcium	ppm ASTM D5185m 1050	<b>1219</b>	1087	1229
Phosphorus	ppm ASTM D5185m 995	<b>1133</b>	996	1006
Zinc	ppm ASTM D5185m 1180	<b>1306</b>	1179	1301
Sulfur	ppm ASTM D5185m 2600	<b>2830</b>	2341	2879

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	<b>13</b>	8	9
Sodium	ppm ASTM D5185m	<b>5</b>	4	2
Potassium	ppm ASTM D5185m >20	<b>10</b>	2	4

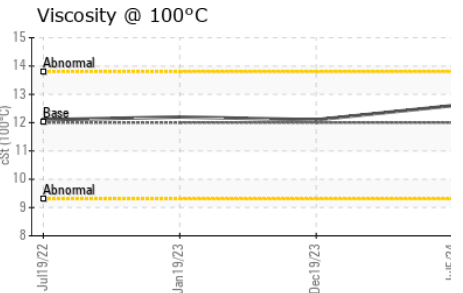
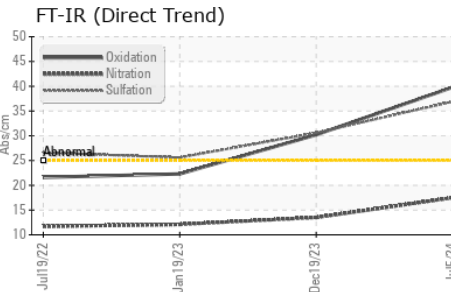
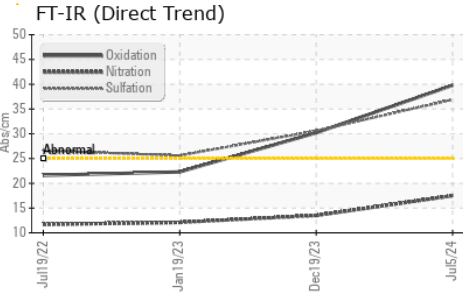
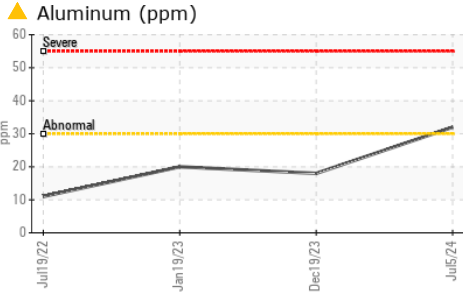
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>2.2</b>	1.4	1.2
Nitration	Abs/cm *ASTM D7624 >20	<b>17.5</b>	13.5	12.1
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>36.9</b>	30.6	25.6

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>39.8</b>	30.2	22.3
Base Number (BN)	mg KOH/g ASTM D2896	<b>▲ 2.4</b>	3.0	4.7

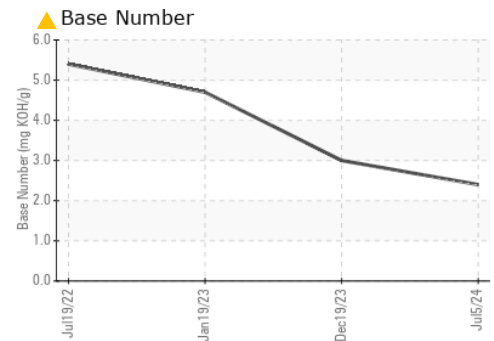
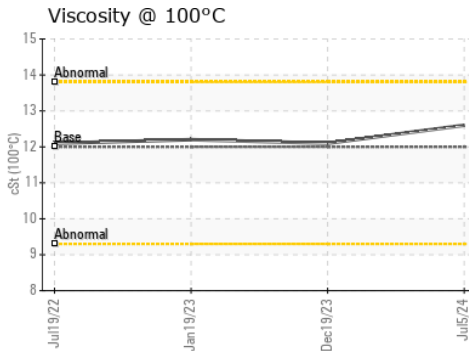
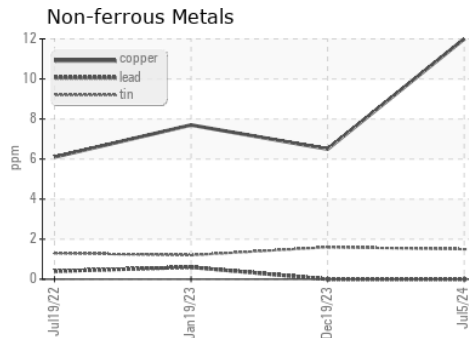
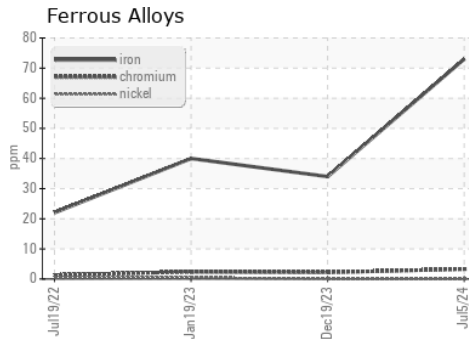
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	<b>12.6</b>	12.1	12.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0128168  
**Lab Number** : 06235358  
**Unique Number** : 11124192  
**Test Package** : FLEET

**Received** : 15 Jul 2024  
**Tested** : 15 Jul 2024  
**Diagnosed** : 15 Jul 2024 - Don Baldrige

Transervice - Shop 1373 - Berkeley-Anderson/Pendergrass  
 101 Alliance Parkway  
 Willamston, SC  
 US 29697

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)

Contact: Sonny Boucher  
 sboucher@transervice.com

T: (864)226-2304

F: (864)226-2329