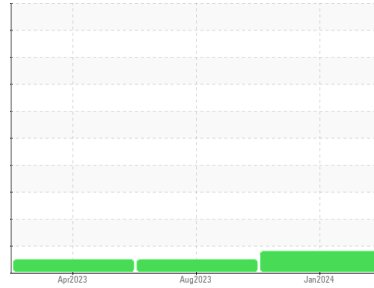


# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area  
**(38440Z) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A62551**  
 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

Exhaust valve wear is indicated.

### Contamination

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>PCA0103630</b>	PCA0093626	PCA0093649
Sample Date	Client Info	<b>15 Jan 2024</b>	17 Aug 2023	27 Apr 2023
Machine Age	mls	<b>224704</b>	202829	176471
Oil Age	mls	<b>21875</b>	26358	0
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 >2.0	<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 >100	<b>11</b>	12	15
Chromium	ppm ASTM D5185m >20	<b>&lt;1</b>	<1	1
Nickel	ppm ASTM D5185m >4	<b>▲ 7</b>	0	<1
Titanium	ppm ASTM D5185m	<b>2</b>	2	2
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >20	<b>4</b>	6	3
Lead	ppm ASTM D5185m >40	<b>1</b>	1	2
Copper	ppm ASTM D5185m >330	<b>11</b>	0	<1
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	<1	1
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	<b>9</b>	5	5
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 50	<b>51</b>	52	47
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m 950	<b>767</b>	868	743
Calcium	ppm ASTM D5185m 1050	<b>1163</b>	1108	977
Phosphorus	ppm ASTM D5185m 995	<b>896</b>	982	886
Zinc	ppm ASTM D5185m 1180	<b>1205</b>	1229	1102
Sulfur	ppm ASTM D5185m 2600	<b>2713</b>	3631	3143

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>6</b>	5	4
Sodium	ppm ASTM D5185m	<b>3</b>	<1	2
Potassium	ppm ASTM D5185m >20	<b>12</b>	9	8

## INFRA-RED

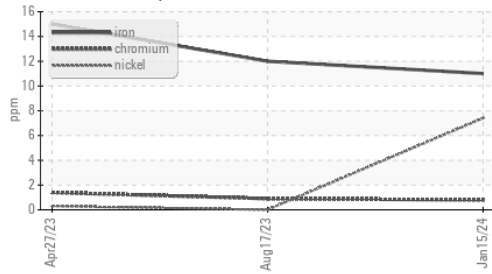
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.3</b>	0.3	0.3
Nitration	Abs/cm *ASTM D7624 >20	<b>7.4</b>	8.0	8.4
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>19.1</b>	18.2	18.7

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>15.5</b>	13.9	13.9
Base Number (BN)	mg KOH/g ASTM D2896	<b>7.8</b>	7.3	6.2

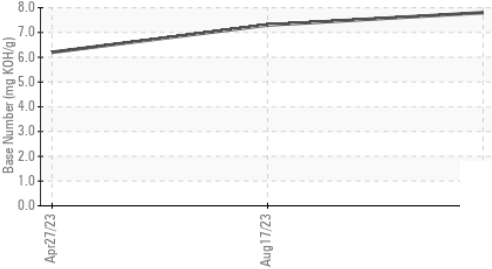
# OIL ANALYSIS REPORT

**▲ Ferrous Alloys**



VISUAL	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

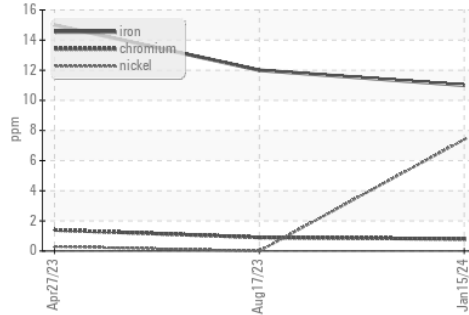
**Base Number**



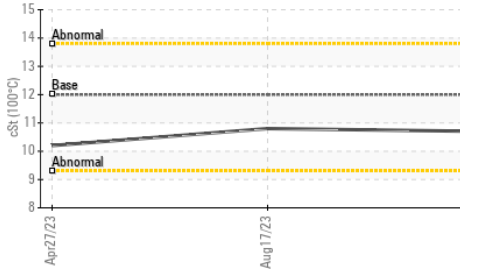
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	10.7	10.8

**GRAPHS**

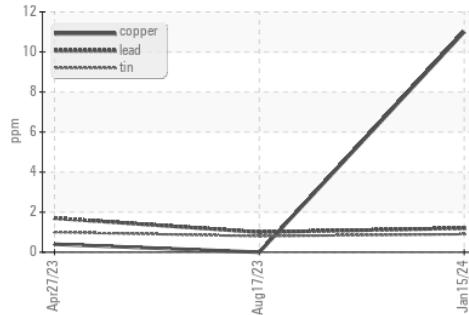
**▲ Ferrous Alloys**



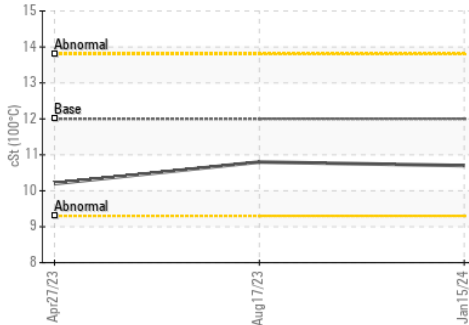
**Viscosity @ 100°C**



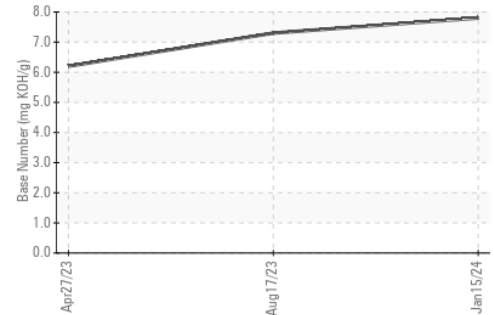
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0103630 **Received** : 26 Jan 2024  
**Lab Number** : 06071409 **Diagnosed** : 30 Jan 2024  
**Unique Number** : 10848086 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**Transervice - Shop 1365 - Berkeley-Nazareth**  
 6813 Chrisphalt Drive  
 Bath Borough, PA  
 US 18014  
 Contact: Stephen Mackes  
 smackes@transervice.com  
 T: (610)837-8103  
 F: (610)837-8105

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)