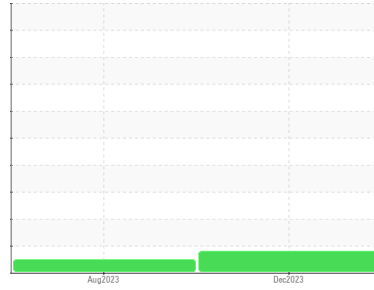


# PROBLEM SUMMARY

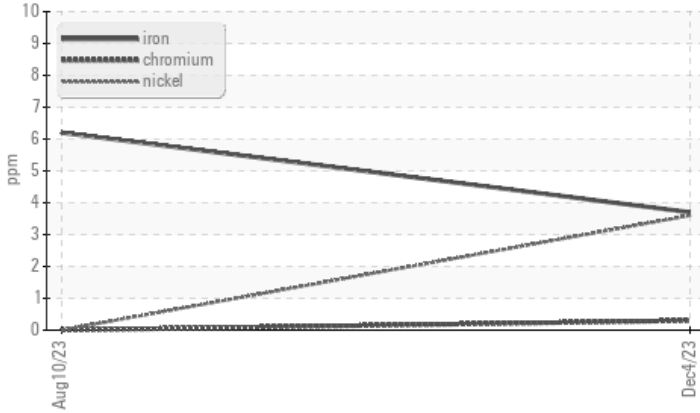
Area  
**(P967815) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A67189**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY

### ▲ Ferrous Alloys




### RECOMMENDATION

No corrective action is recommended at this time.  
 Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	NORMAL	---
Nickel	▲ 4	0	---

**Customer Id:** TSV1366  
**Sample No.:** PCA0105463  
**Lab Number:** 06033293  
**Test Package:** FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Sean Felton +1 919-379-4092  
[sfelton@wearcheckusa.com](mailto:sfelton@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

**10 Aug 2023 Diag: Wes Davis**

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

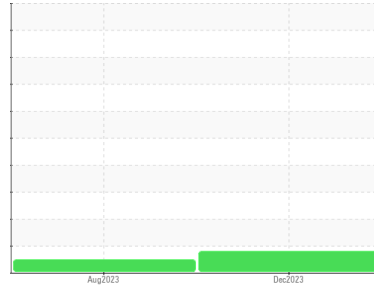
view report





# OIL ANALYSIS REPORT

### Sample Rating Trend



**WEAR**



Area  
**(P967815) Walgreens - Tractor**  
 Machine Id  
**[Walgreens - Tractor] 136A67189**  
 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

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>PCA0105463</b>	PCA0093789	---
Sample Date	Client Info		<b>04 Dec 2023</b>	10 Aug 2023	---
Machine Age	mls	Client Info	<b>531678</b>	522985	---
Oil Age	mls	Client Info	<b>10000</b>	50000	---
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	---
Sample Status			<b>ABNORMAL</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 >110	<b>4</b>	6	---
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m >2	<b>▲ 4</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>1</b>	0	---
Lead	ppm	ASTM D5185m >45	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m >85	<b>10</b>	1	---
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>9</b>	0	---
Barium	ppm	ASTM D5185m 0	<b>11</b>	2	---
Molybdenum	ppm	ASTM D5185m 50	<b>59</b>	64	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m 950	<b>924</b>	942	---
Calcium	ppm	ASTM D5185m 1050	<b>1033</b>	1115	---
Phosphorus	ppm	ASTM D5185m 995	<b>938</b>	1065	---
Zinc	ppm	ASTM D5185m 1180	<b>1185</b>	1239	---
Sulfur	ppm	ASTM D5185m 2600	<b>3685</b>	3242	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	<b>4</b>	5	---
Sodium	ppm	ASTM D5185m	<b>0</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	2	---

### INFRA-RED

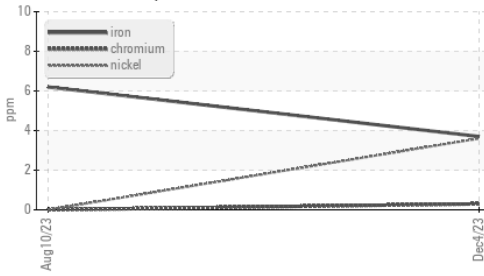
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.1</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>6.0</b>	8.2	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>17.7</b>	17.6	---

### FLUID DEGRADATION

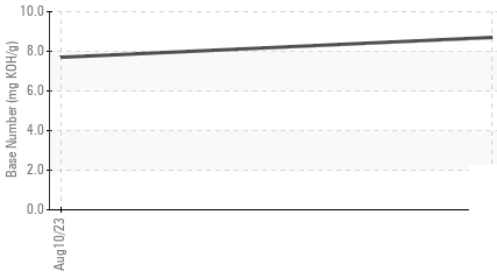
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.9</b>	13.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.7</b>	7.7	---

# OIL ANALYSIS REPORT

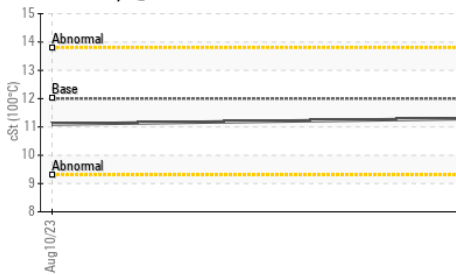
**▲ Ferrous Alloys**



**Base Number**



**Viscosity @ 100°C**

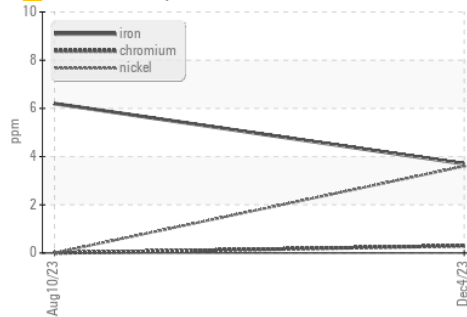


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

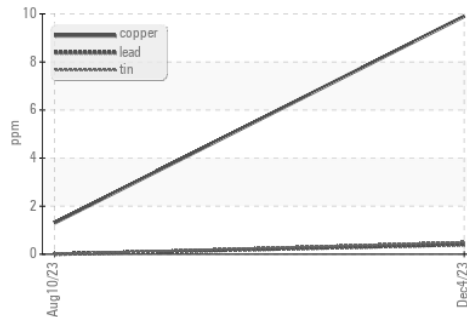
FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.3</b>	11.1	---

**GRAPHS**

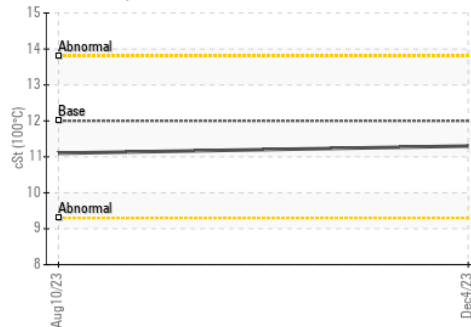
**▲ Ferrous Alloys**



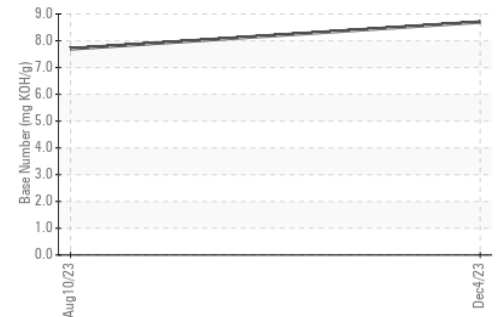
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0105463 **Recieved** : 13 Dec 2023  
**Lab Number** : **06033293** **Diagnosed** : 15 Dec 2023  
**Unique Number** : 10783084 **Diagnostician** : Sean Felton  
**Test Package** : FLEET

**Transervice - Shop 1366 - Berkeley-Woodland**  
 2370 East Main Street  
 Woodland, CA  
 US 95776  
 Contact: Gary Mann  
 gmann@transervice.com  
 T: (530)666-7771  
 F: (530)406-7971

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)