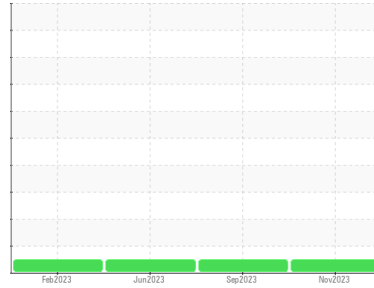


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**(51478Z) Walgreens - Tractor**  
Machine Id  
**[Walgreens - Tractor] 136A63343**  
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. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### 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>PCA0103507</b>	PCA0103536	PCA0092947
Sample Date	Client Info		<b>22 Nov 2023</b>	06 Sep 2023	06 Jun 2023
Machine Age	mls	Client Info	<b>148264</b>	121527	87908
Oil Age	mls	Client Info	<b>60000</b>	30000	30000
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status			<b>NORMAL</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>48</b>	24	36
Chromium	ppm	ASTM D5185m >5	<b>5</b>	2	3
Nickel	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >30	<b>17</b>	7	25
Lead	ppm	ASTM D5185m >30	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >150	<b>26</b>	20	32
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>0</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>&lt;1</b>	0	5
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>65</b>	63	66
Manganese	ppm	ASTM D5185m 0	<b>2</b>	<1	1
Magnesium	ppm	ASTM D5185m 950	<b>1054</b>	1053	897
Calcium	ppm	ASTM D5185m 1050	<b>1154</b>	1212	1189
Phosphorus	ppm	ASTM D5185m 995	<b>1108</b>	1066	979
Zinc	ppm	ASTM D5185m 1180	<b>1416</b>	1403	1231
Sulfur	ppm	ASTM D5185m 2600	<b>2482</b>	3161	2419

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>11</b>	5	8
Sodium	ppm	ASTM D5185m	<b>4</b>	4	<1
Potassium	ppm	ASTM D5185m >20	<b>26</b>	18	48

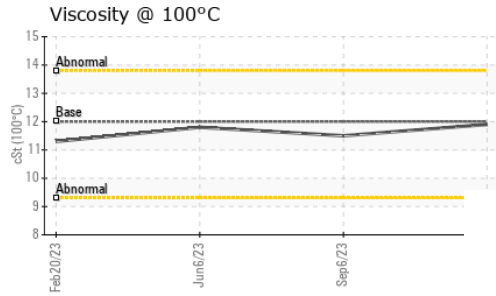
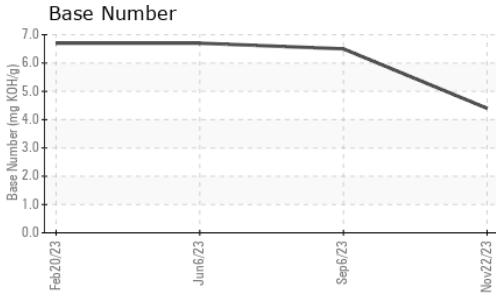
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>1</b>	0.7	0.9
Nitration	Abs/cm	*ASTM D7624 >20	<b>11.8</b>	9.5	10.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>24.6</b>	21.9	24.0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>22.7</b>	18.7	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	<b>4.4</b>	6.5	6.7

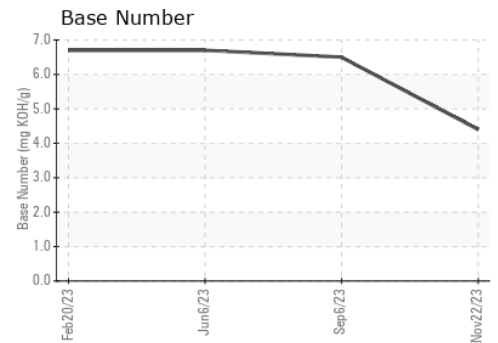
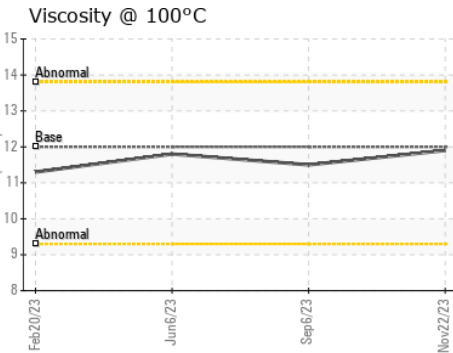
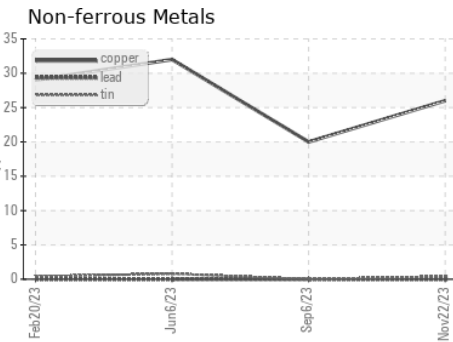
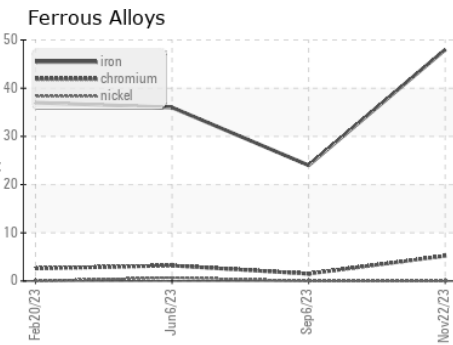
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.9</b>	11.5	11.8

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0103507 **Received** : 12 Dec 2023  
**Lab Number** : 06032279 **Diagnosed** : 15 Dec 2023  
**Unique Number** : 10782070 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**Transervice - Shop 1375 - Berkeley-Houston**  
 2960 Farrell Road  
 Houston, TX  
 US 77073  
 Contact: Adam Mendoza  
 amendoza@transervice.com  
 T: (281)821-2801  
 F: (281)821-2804

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)