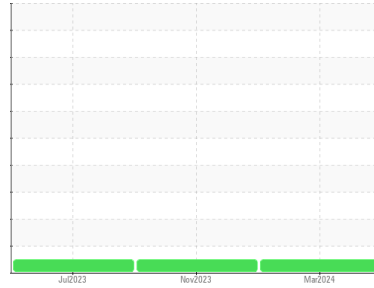


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(AU676W) Supermarket - Tractor**  
Machine Id  
**FREIGHTLINER 107A1828**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

## DIAGNOSIS

### Recommendation

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>PCA0116483</b>	PCA0104832	PCA0100400
Sample Date	Client Info		<b>13 Mar 2024</b>	14 Nov 2023	03 Jul 2023
Machine Age	mls	Client Info	<b>333398</b>	308808	289723
Oil Age	mls	Client Info	<b>24590</b>	24085	18868
Oil Changed	Client Info		<b>Changed</b>	Changed	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>14</b>	45	13
Chromium	ppm	ASTM D5185m >5	<b>2</b>	4	1
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m >30	<b>6</b>	83	7
Lead	ppm	ASTM D5185m >30	<b>1</b>	0	0
Copper	ppm	ASTM D5185m >150	<b>3</b>	72	4
Tin	ppm	ASTM D5185m >5	<b>1</b>	2	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>4</b>	17	4
Barium	ppm	ASTM D5185m 0	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>64</b>	54	63
Manganese	ppm	ASTM D5185m 0	<b>1</b>	2	<1
Magnesium	ppm	ASTM D5185m 950	<b>920</b>	720	955
Calcium	ppm	ASTM D5185m 1050	<b>1165</b>	1365	1134
Phosphorus	ppm	ASTM D5185m 995	<b>999</b>	908	1087
Zinc	ppm	ASTM D5185m 1180	<b>1245</b>	1129	1362
Sulfur	ppm	ASTM D5185m 2600	<b>2928</b>	2339	3735

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>6</b>	6	3
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	2
Potassium	ppm	ASTM D5185m >20	<b>3</b>	195	3

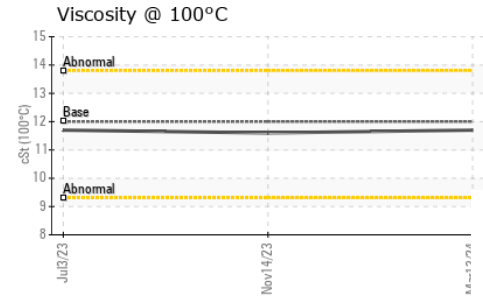
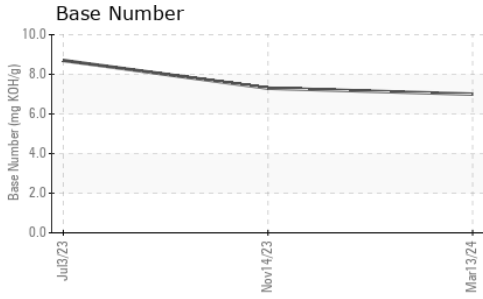
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.9</b>	0.8	0.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.0</b>	9.0	7.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.9</b>	22.2	19.5

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>17.0</b>	19.2	15.7
Base Number (BN)	mg KOH/g	ASTM D2896	<b>7.0</b>	7.3	8.7

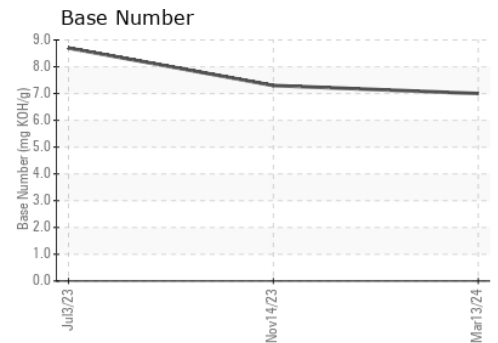
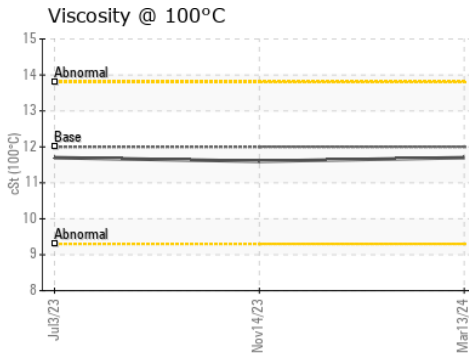
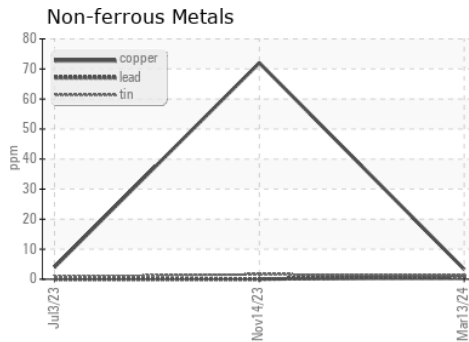
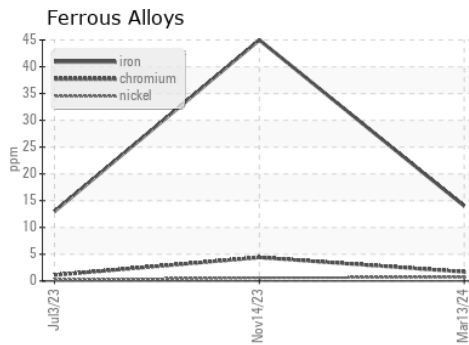
# OIL ANALYSIS REPORT



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>11.7</b>	11.6	11.7

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0116483  
**Lab Number** : **06127523**  
**Unique Number** : 10941674  
**Test Package** : FLEET

**Received** : 25 Mar 2024  
**Tested** : 26 Mar 2024  
**Diagnosed** : 26 Mar 2024 - Wes Davis

**Transervice - Shop 1072 - Supermarket-Elizabeth**  
 505 Division Street  
 Elizabeth, NJ  
 US 07207  
 Contact: Normand Brizak  
 nbrizak@transervice.com

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)

T:  
F: