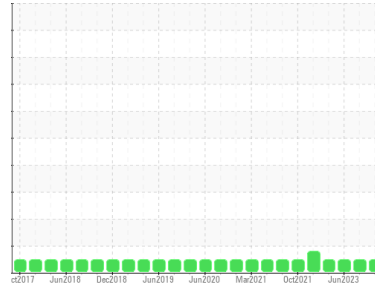


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**PETERBILT 15**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON HP 15W40 (4 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>PCA0090843</b>	PCA0090836	PCA0090828
Sample Date	Client Info		<b>30 Sep 2023</b>	03 Aug 2023	05 Jun 2023
Machine Age	mls	Client Info	<b>266294</b>	261435	256752
Oil Age	mls	Client Info	<b>4859</b>	4683	7452
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
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>13</b>	3	14
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >20	<b>8</b>	4	5
Lead	ppm	ASTM D5185m >40	<b>0</b>	1	0
Copper	ppm	ASTM D5185m >330	<b>5</b>	11	12
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<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	<b>10</b>	7	12
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>56</b>	64	57
Manganese	ppm	ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	<b>871</b>	950	874
Calcium	ppm	ASTM D5185m	<b>1033</b>	1142	1128
Phosphorus	ppm	ASTM D5185m	<b>979</b>	1070	976
Zinc	ppm	ASTM D5185m	<b>1197</b>	1262	1148
Sulfur	ppm	ASTM D5185m	<b>3041</b>	3262	3418

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>7</b>	5	6
Sodium	ppm	ASTM D5185m	<b>2</b>	1	3
Potassium	ppm	ASTM D5185m >20	<b>10</b>	2	2

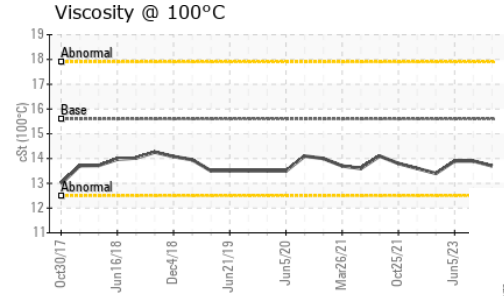
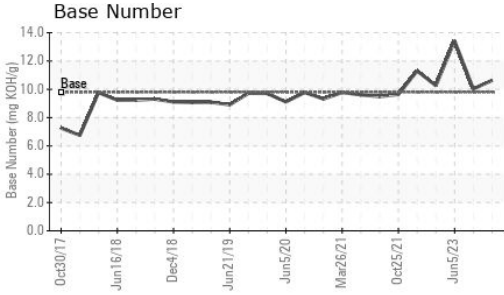
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.2</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>6.0</b>	6.0	7.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>17.5</b>	17.7	18.3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.2</b>	13.5	13.9
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>10.63</b>	10.03	13.42

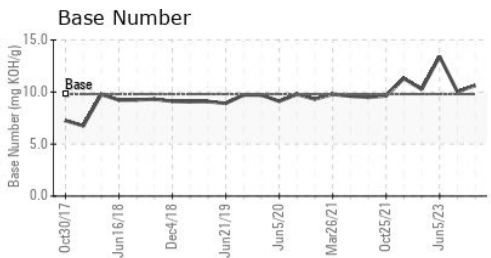
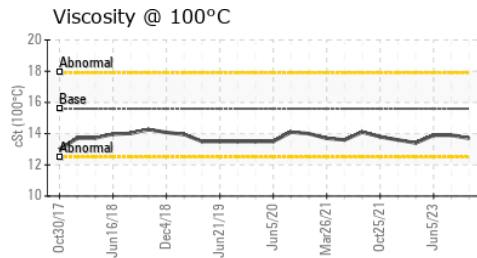
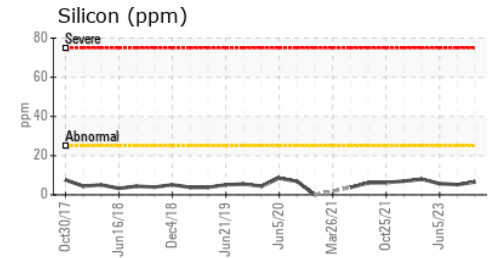
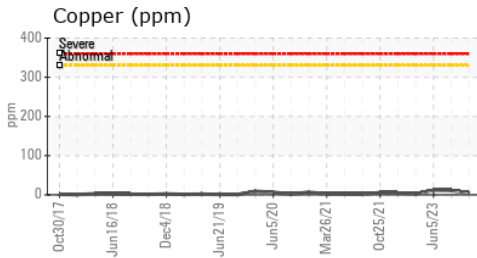
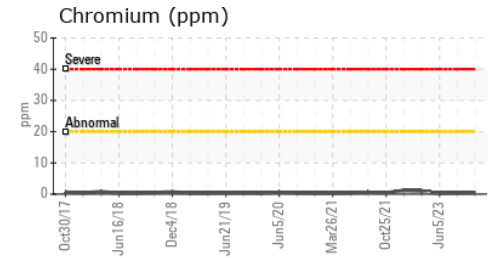
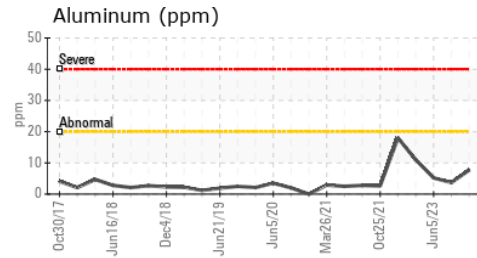
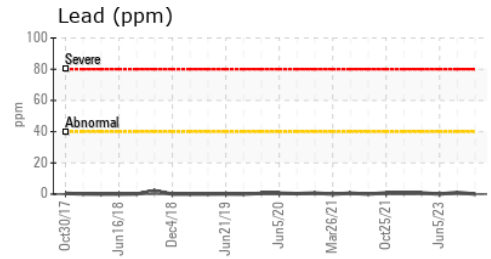
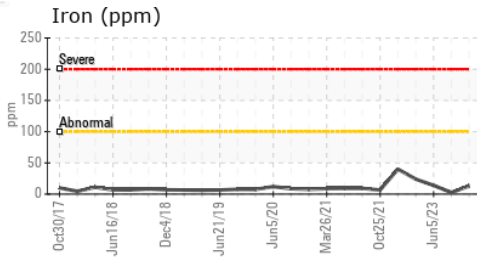
# OIL ANALYSIS REPORT



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	15.6	<b>13.7</b>	13.9	13.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0090843 **Received** : 31 Oct 2023  
**Lab Number** : 05994523 **Diagnosed** : 01 Nov 2023  
**Unique Number** : 10722883 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

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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)