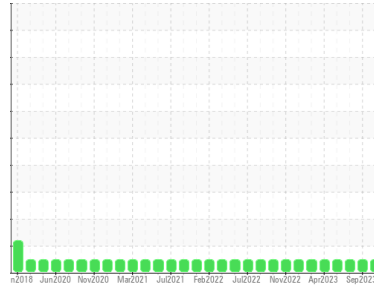


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**PETERBILT 28 - RD688SX2788**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON HP 15W40 (36 QTS)**

## 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>PCA0098375</b>	PCA0090844	PCA0071903
Sample Date	Client Info	<b>27 Oct 2023</b>	19 Sep 2023	16 Aug 2023
Machine Age	mls	<b>773589</b>	768256	762676
Oil Age	mls	<b>5333</b>	5580	12176
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 >110	<b>5</b>	6	16
Chromium	ppm ASTM D5185m >4	<b>0</b>	<1	<1
Nickel	ppm ASTM D5185m >2	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	0	<1
Silver	ppm ASTM D5185m >2	<b>0</b>	<1	0
Aluminum	ppm ASTM D5185m >25	<b>&lt;1</b>	<1	2
Lead	ppm ASTM D5185m >45	<b>0</b>	0	<1
Copper	ppm ASTM D5185m >85	<b>&lt;1</b>	2	4
Tin	ppm ASTM D5185m >4	<b>0</b>	<1	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>14</b>	11	0
Barium	ppm ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m	<b>28</b>	53	62
Manganese	ppm ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm ASTM D5185m	<b>425</b>	841	1025
Calcium	ppm ASTM D5185m	<b>1688</b>	973	1125
Phosphorus	ppm ASTM D5185m	<b>918</b>	955	1072
Zinc	ppm ASTM D5185m	<b>1119</b>	1145	1326
Sulfur	ppm ASTM D5185m	<b>3304</b>	2944	3814

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >30	<b>3</b>	3	4
Sodium	ppm ASTM D5185m	<b>&lt;1</b>	2	7
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	2	1

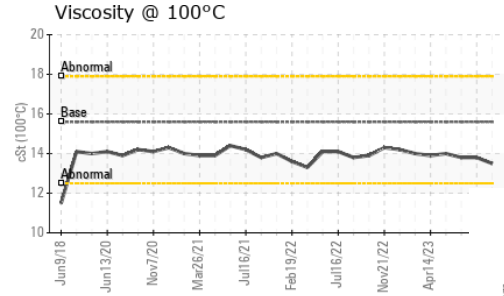
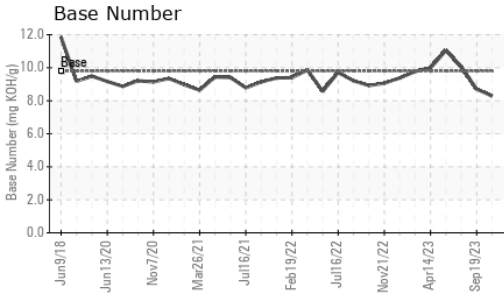
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.2</b>	0.2	0.3
Nitration	Abs/cm *ASTM D7624 >20	<b>6.6</b>	5.9	7.0
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>16.9</b>	17.8	18.9

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>11.6</b>	13.8	14.8
Base Number (BN)	mg KOH/g ASTM D2896 9.8	<b>8.28</b>	8.71	10.06

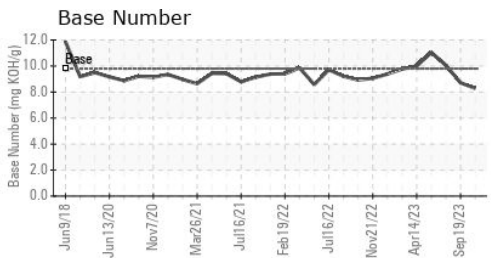
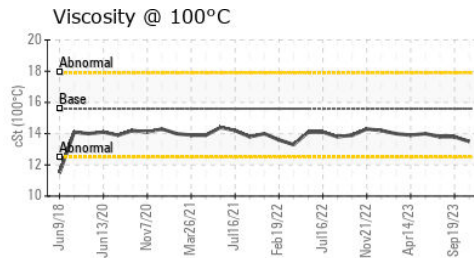
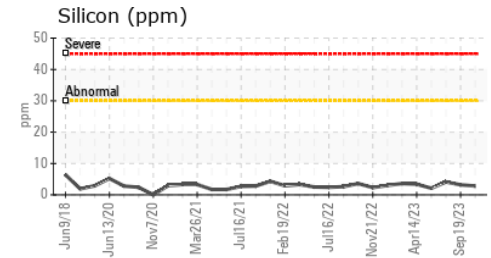
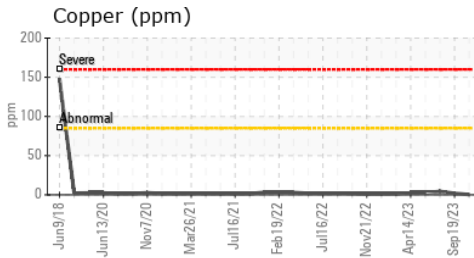
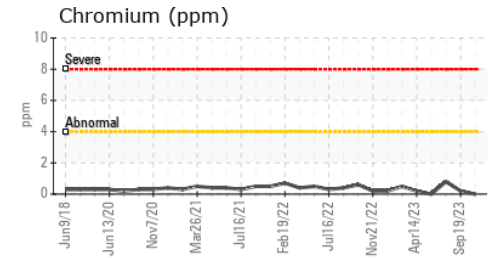
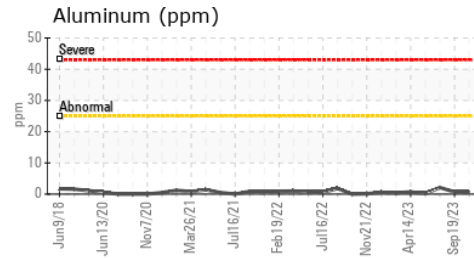
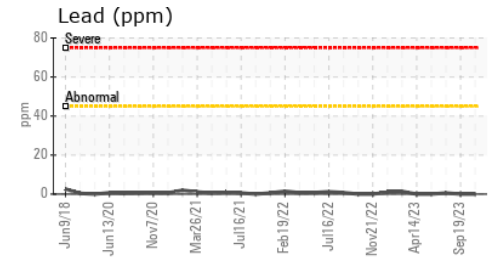
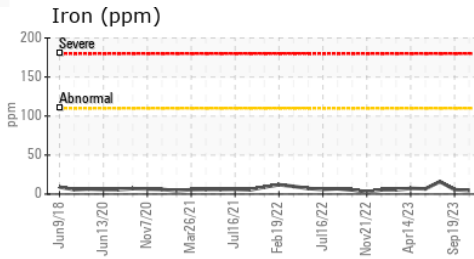
# OIL ANALYSIS REPORT



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>13.5</b>	13.8	13.8

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0098375 **Received** : 11 Dec 2023  
**Lab Number** : 06031803 **Diagnosed** : 14 Dec 2023  
**Unique Number** : 10781594 **Diagnostician** : Sean Felton  
**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)