



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

[WO36129]

Machine Id

PETERBILT TRK 2010

Component

Diesel Engine

Fluid

PETRO CANADA DURON SHP 15W40 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0903655</b>	WC0903642	WC0903632
Sample Date		Client Info		<b>17 Jun 2024</b>	15 Apr 2024	14 Feb 2024
Machine Age	mls	Client Info		<b>107975</b>	75882	45824
Oil Age	mls	Client Info		<b>32093</b>	30058	0
Filter Age	mls	Client Info		<b>32093</b>	30058	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>110	<b>22</b>	22	33
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	1	<1
Aluminum	ppm	ASTM D5185m	>25	<b>6</b>	6	9
Lead	ppm	ASTM D5185m	>45	<b>0</b>	<1	1
Copper	ppm	ASTM D5185m	>85	<b>3</b>	5	8
Tin	ppm	ASTM D5185m	>4	<b>0</b>	2	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

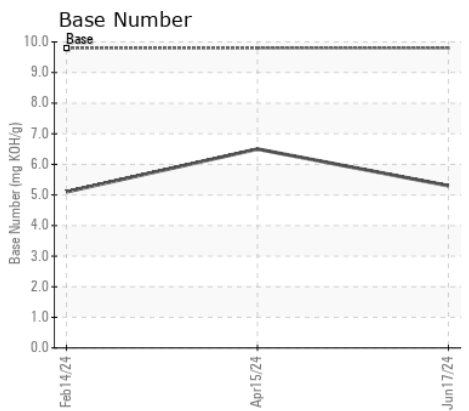
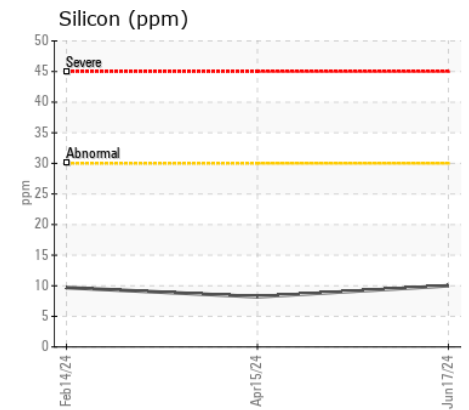
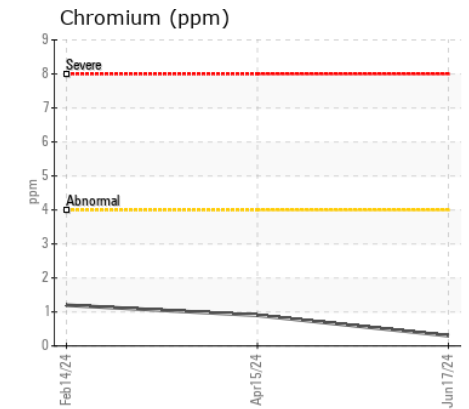
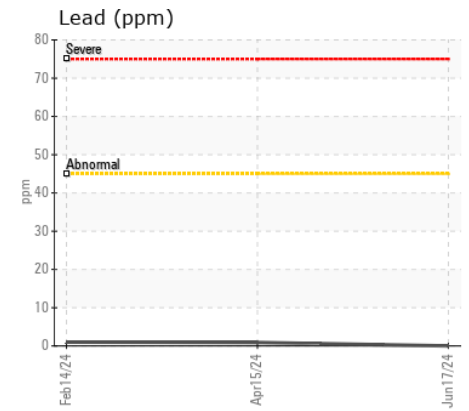
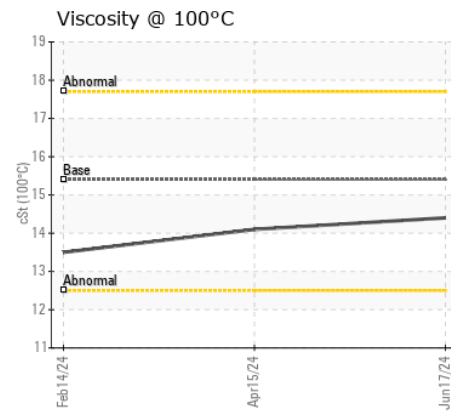
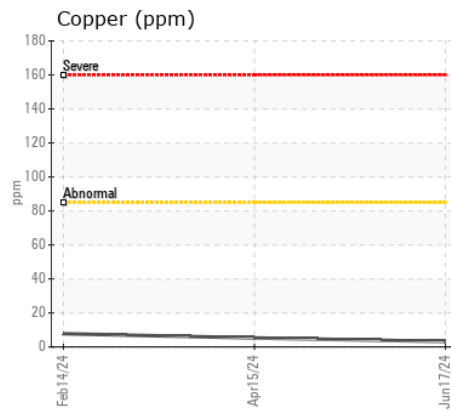
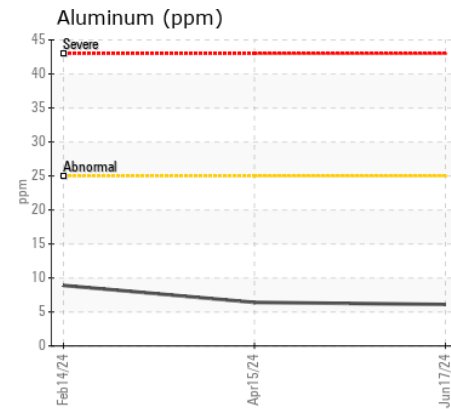
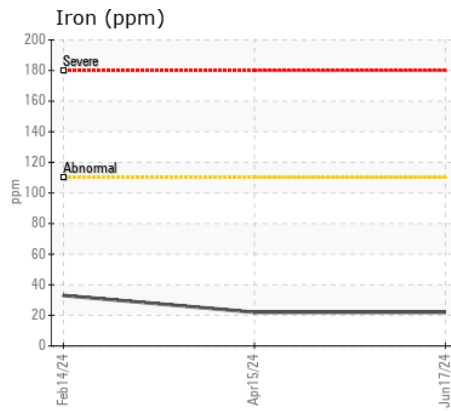
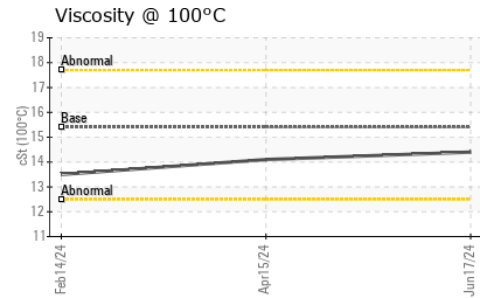
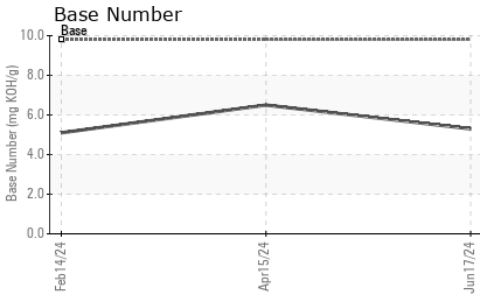
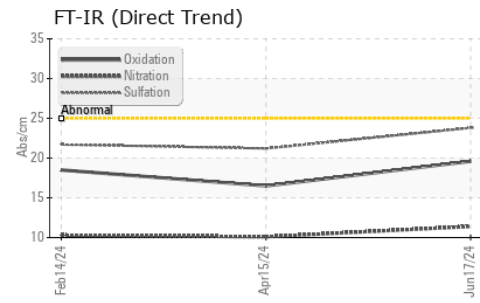
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>10</b>	8	10
Potassium	ppm	ASTM D5185m	>20	<b>10</b>	12	25
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
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.4</b>	10.1	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.8</b>	21.2	21.7
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## 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.

Sodium	ppm	ASTM D5185m		<b>2</b>	<1	0
Boron	ppm	ASTM D5185m	0	<b>0</b>	<1	5
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	60	<b>52</b>	60	50
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m	1010	<b>828</b>	910	870
Calcium	ppm	ASTM D5185m	1070	<b>1533</b>	1209	1100
Phosphorus	ppm	ASTM D5185m	1150	<b>1045</b>	1076	913
Zinc	ppm	ASTM D5185m	1270	<b>1311</b>	1277	1108
Sulfur	ppm	ASTM D5185m	2060	<b>3578</b>	3286	3295
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.6</b>	16.5	18.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>5.3</b>	6.5	5.1
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.4</b>	14.1	13.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0903655 **Received** : 11 Jul 2024  
**Lab Number** : 06233137 **Tested** : 12 Jul 2024  
**Unique Number** : 11116630 **Diagnosed** : 12 Jul 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

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)

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