

Current

BPL0004731

01 Jul 2024

229810

57157

57157

History1

History2

- - - -

Machine Id **PETERBILT 827993** nonei **Diesel Engine** CHEVRON DELO 400 SAE 10W30 (44 QTS)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

WE

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	Oil Changed		Client Info		Changed
	Filter Changed		Client Info		Changed
	Sample Status				ABNORMAL
WEAR	Iron	ppm	ASTM D5185m		200
Cylinder, crank, or cam shaft wear is indicated.	Chromium	ppm	ASTM D5185m		5
	Nickel	ppm	ASTM D5185m		2
	Titanium	ppm	ASTM D5185m		<1
	Silver	ppm	ASTM D5185m		<1
	Aluminum	ppm	ASTM D5185m		9 19
	Lead	ppm	ASTM D5185m		11
	Copper	ppm	ASTM D5185m		11
	Tin	ppm	ASTM D5185m	>5	4
	Vanadium	ppm	ASTM D5185m		<1
	White Metal	scalar	*Visual	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>35	4 1
Elemental levels of silicon (Si) and aluminum (AI) indicate alumina- silicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	25
	Fuel		WC Method	>3.0	<1.0
	Water		WC Method	>0.2	NEG
	Glycol		WC Method		NEG
	Soot %	%	*ASTM D7844	>7.5	1.6
	Nitration	Abs/cm	*ASTM D7624	>20	13.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	37.7
	Silt	scalar	*Visual	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		9
	Boron	ppm	ASTM D5185m		12
The BN level is low. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0

Test

Sample Number

Sample Date

Machine Age

Oil Age

Filter Age

UOM

mls

mls

mls

ppm

ppm

ppm

ppm

ppm

ppm

ppm

cSt

Abs/.1mm

Molybdenum

Manganese

Magnesium

Phosphorus

Calcium

Zinc

Sulfur

Oxidation

Base Number (BN)

Visc @ 100°C

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

*ASTM D7414

ASTM D445

mg KOH/g ASTM D2896 10.1

ASTM D5185m 1260

1400

>25

11.1

Method

Client Info

Client Info

Client Info

Client Info

Client Info

Limit/Abn

FLU

The BN level is low. The condition of the oil is acceptable for the time in service.

51

4

604

1632

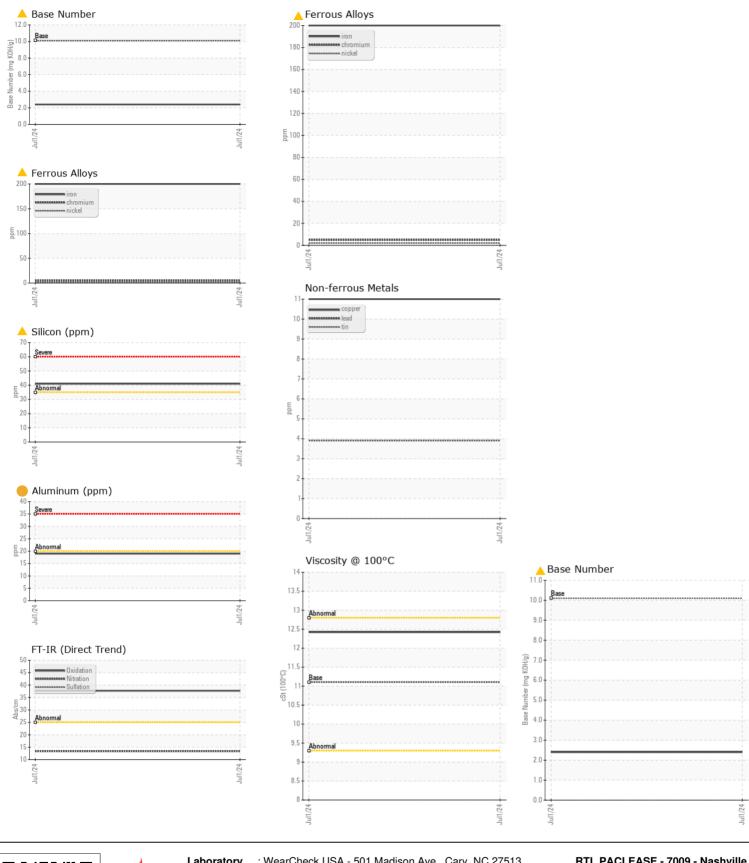
1012

1211

3419 37.7

2.4

12.42



RTL PACLEASE - 7009 - Nashville Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 900 Expo Dr. : RPL0004731 : 09 Jul 2024 Lab Number : 06231241 Tested : 11 Jul 2024 Smyrna, TN Diagnosed Unique Number : 11114734 : 12 Jul 2024 - Don Baldridge US 37167 Test Package : FLEET Contact: TECHNICIAN ACCOUNT Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. catherine.anastasio@wearcheck.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)