**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL ABNORMAL ABNORMAL** 



## Machine Id **PETERBILT RT-25 (S/N 1XP5DB9X9YN498749)**

Diesel Engine Pluid DURAMAX 15W40 (44 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TILOOMINILIADATION	Sample Number	OOW	Client Info	LITTIOTOTT	DC0037297	DC0026613	DC04769489
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Date		Client Info		13 Jun 2024	08 Mar 2023	17 Jul 2019
	Machine Age	mls	Client Info		512595	502267	400991
	Oil Age	mls	Client Info		10328	9291	10184
	Filter Age	mls	Client Info		10328	9291	10184
	Oil Changed	11113	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Olichi illio		ABNORMAL	ABNORMAL	_
WEAD	leon		ACTM DE10Em	. 200	00	10	15
WEAR	Iron	ppm	ASTM D5185m		20	12	15
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>10	<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	2
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	1	1
	Lead	ppm		>40	3	<1	2
	Copper	ppm	ASTM D5185m		12	45	10
	Tin	ppm	ASTM D5185m	>20	<1	<1	0
	Vanadium	ppm	ASTM D5185m	NONE	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	5	5	3
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m	>20	2	2	8
	Fuel	%	ASTM D3524	>3.0	<b>4.0</b>	<b>△</b> 3.7	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.4	7.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.4	16.7	17
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		6	7	4
	Boron	ppm	ASTM D5185m		3	4	4
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		3	4	4
	Manganese	ppm	ASTM D5185m		<1	<1	<1
							07
	Magnesium	ppm	ASTM D5185m		39	54	67
	Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m		39 2226	54 2451	2434
	-						

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

ppm

Base Number (BN) mg KOH/g ASTM D2896

ASTM D5185m

ASTM D445

ppm ASTM D5185m

Abs/.1mm \*ASTM D7414 >25

1020

3557

9.2

6.8

11.9

1160

5026

9.2

7.2

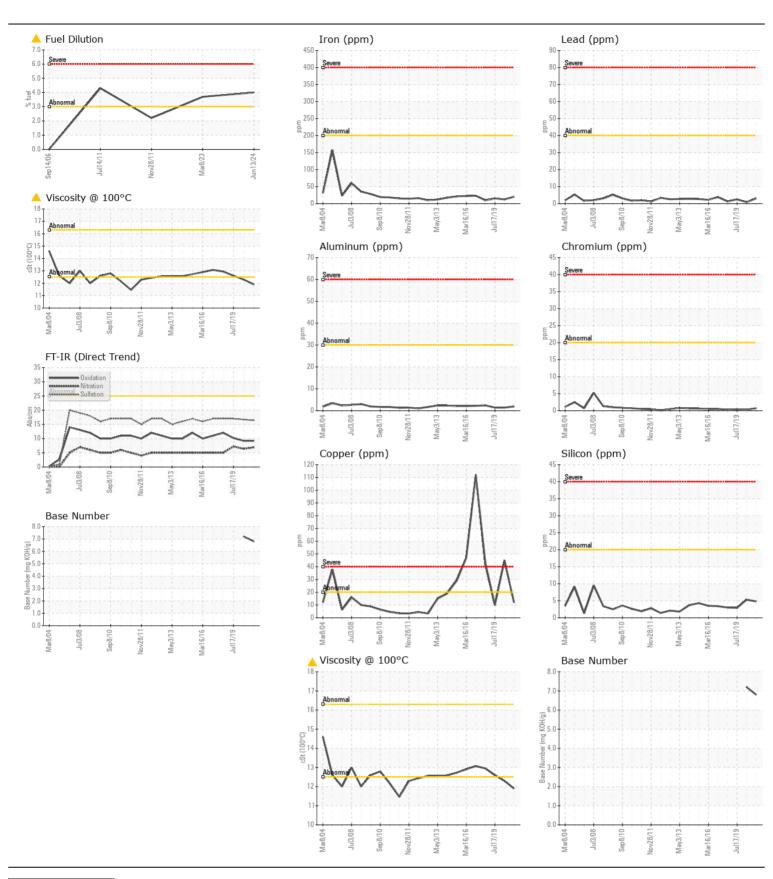
12.3

1050

10.2

12.6

3266







Certificate L2367

Laboratory Sample No.

Lab Number : 06232071

: DC0037297

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Unique Number: 11115564

: 10 Jul 2024 : 12 Jul 2024 Diagnosed

: 12 Jul 2024 - Wes Davis Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, 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.

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jonathank@rosscontracting.com T: (301)831-5500 F: (301)831-5900 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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