**WEAR** CONTAMINATION **FLUID CONDITION** 

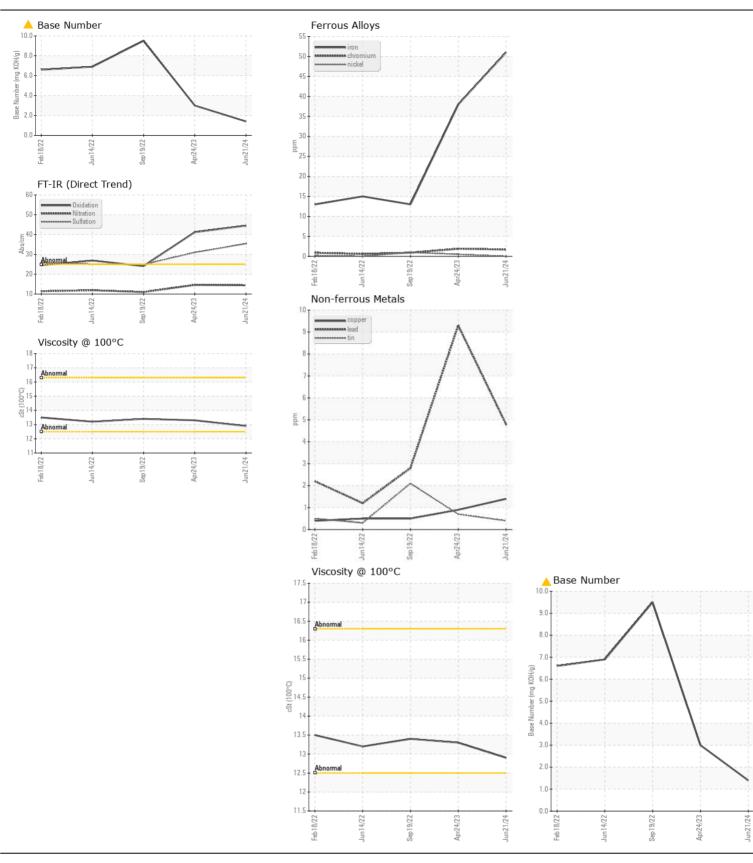
**NORMAL NORMAL ABNORMAL** 

Machine Id

## **PETERBILT 9571381**

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		RPL0019837	RPL0003957	RPL000377
	Sample Date		Client Info		21 Jun 2024	24 Apr 2023	19 Sep 202
	Machine Age	mls	Client Info		267958	208993	179565
	Oil Age	mls	Client Info		32664	29428	27347
	Filter Age	mls	Client Info		11507	29428	27347
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>165	51	38	13
VEAIT	Chromium	ppm	ASTM D5185m		2	2	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		10	13	10
	Lead	ppm	ASTM D5185m		5	9	3
	Copper	ppm	ASTM D5185m		1	<1	<1
	Tin	ppm	ASTM D5185m		<1	<1	2
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTANUNATION	0'''		AOTA DE LOS	05			
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	8	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		14	20	14
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	7.5	NEG	NEG	NEG
	Soot % Nitration	%	*ASTM D7844 *ASTM D7624		0.7 14.4	0.5 14.6	0.4
	Sulfation	Abs/.1mm	*ASTM D7624		35.4	31.0	24.9
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
			v 100a				
LUID CONDITION	Sodium	ppm	ASTM D5185m	>118	3	2	3
The BN level is low. The condition of the oil is acceptable for the time	Boron	ppm	ASTM D5185m		33	25	32
in service.	Barium	ppm	ASTM D5185m		0	2	0
	Molybdenum	ppm	ASTM D5185m		115	52	61
	Manganese	ppm	ASTM D5185m		1	<1	1
	Magnesium	ppm	ASTM D5185m		680	527	558
	Calcium	ppm	ASTM D5185m		1283	1648	1552
	Phosphorus	ppm	ASTM D5185m		704	739	746
	Zinc	ppm	ASTM D5185m		868	941	890
	Sulfur	ppm	ASTM D5185m		3254	2425	2536
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896	>25	44.5 <b>1.4</b>	41.2 <b>△</b> 3.0	24.1
						<u> </u>	9.5







Certificate L2367

Laboratory Sample No.

: RPL0019837 Lab Number : 06220623 Unique Number : 11098820 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Jun 2024

**Tested** : 27 Jun 2024 Diagnosed : 27 Jun 2024 - Angela Borella

RTL PACLEASE - 7018 - West Texas

1230 South Grandview Odessa, TX US 79761

Contact: David Johnson JohnsonD@RushEnterprises.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

T: (512)401-7063

\* - 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)