WEAR CONTAMINATION FLUID CONDITION

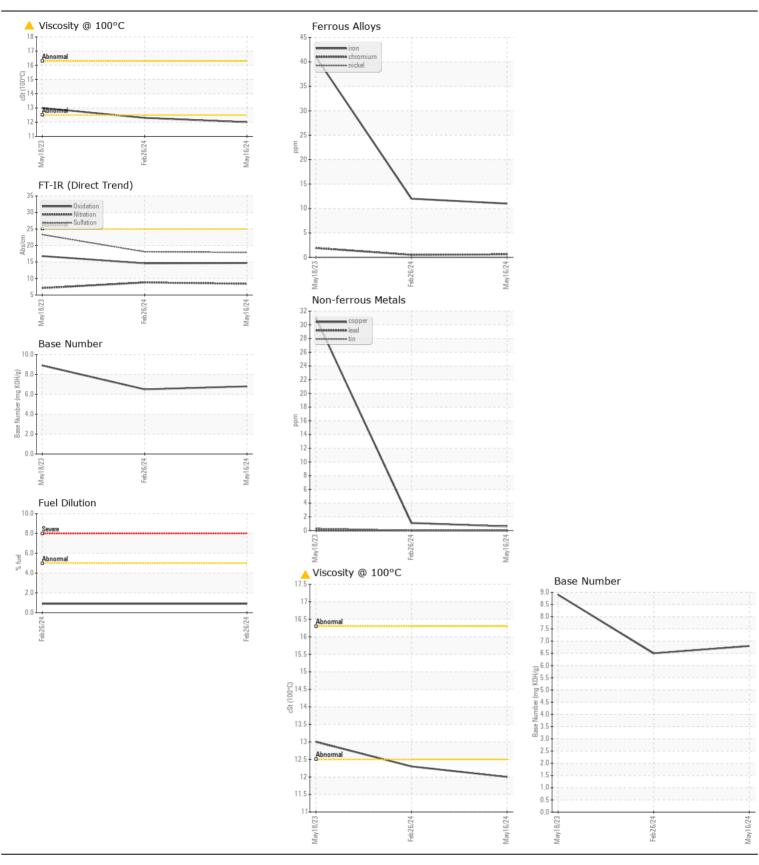
NORMAL NORMAL MARGINAL

Machine Id

PETERBILT 9571789

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		RPL0015918	RPL0000867	RPL000949
	Sample Date		Client Info		16 May 2024	26 Feb 2024	18 May 202
	Machine Age	mls	Client Info		24658	20191	3328
	Oil Age	mls	Client Info		4500	5000	3328
	Filter Age	mls	Client Info		4500	5000	3328
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				MARGINAL	MARGINAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>100	11	12	41
VEAIL	Chromium	ppm	ASTM D5185m		<1	<1	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	- 1	0	0	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		5	7	10
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		<1	1	31
	Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 25	6	5	<u></u> 31
CONTAMINATION	Potassium	ppm	ASTM D5185m		6 9	11	23
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3703111		<1.0	0.9	<1.0
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.8	7.1
	Sulfation	Abs/.1mm	*ASTM D7415		17.9	18.1	23.3
	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	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	nnm	ASTM D5185m	<11Q	1	2	5
LOID CONDITION	Boron	ppm	ASTM D5105m	>110	101	116	264
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		122	126	98
	Manganese	ppm	ASTM D5185m		<1	<1	5
	Magnesium	ppm	ASTM D5185m		702	666	631
	Calcium	ppm	ASTM D5185m		1414	1237	1359
	Phosphorus	ppm	ASTM D5185m		783	690	650
	Zinc	ppm	ASTM D5185m		949	841	806
	Sulfur	ppm	ASTM D5185m		3667	2955	2742
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	14.6	16.8
	Base Number (BN)			0	6.8	6.5	8.9
					7.0	0.0	0.0





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06187492

: RPL0015918 Unique Number : 11044244

Received **Tested** Diagnosed

: 22 May 2024 : 23 May 2024

Test Package : FLEET (Additional Tests: FuelDilution)

: 24 May 2024 - Don Baldridge To discuss this sample report, contact Customer Service at 1-800-237-1369.

Austin, TX US 78721 Contact: David Johnson JohnsonD@RushEnterprises.com

RTL PACLEASE - 7004 - Austin

* - 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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