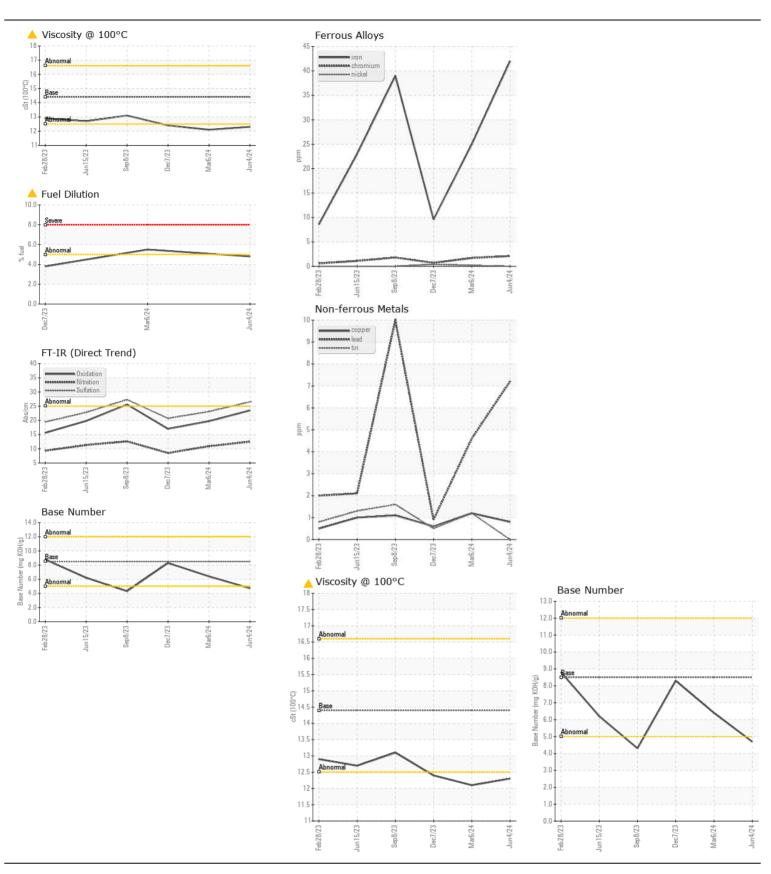
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL ABNORMAL

Machine Id

PETERBILT 8464378 Component

Component Diesel Engine							
Fluid							
DIESEL ENGINE OIL SAE 15W40 (GAL)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		RPL0021024	RPL0019447	RPL0016808
	Sample Date		Client Info		04 Jun 2024	06 Mar 2024	07 Dec 2023
	Machine Age	mls	Client Info		191072	183022	174851
	Oil Age	mls	Client Info		26862	18812	10641
	Filter Age	mls	Client Info		26862	18812	10641
	Oil Changed		Client Info		Not Changd	Filtered	Filtered
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	MARGINAL
WEAD	lua-a		ACTM DE10E	110	40	05	10
WEAR	Iron	ppm	ASTM D5185m		42	25	10
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m ASTM D5185m		2 0	2 <1	<1
	Titanium	ppm ppm	ASTM D5185m	>2	0	<1	0
	Silver	ppm	ASTM D5185m	-2	0	0	0
	Aluminum	ppm	ASTM D5185m		10	7	3
	Lead	ppm	ASTM D5185m		7	5	<1
	Copper	ppm	ASTM D5185m		<1	1	<1
	Tin	ppm	ASTM D5185m		0	1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. No other contaminants were detected in the oil.	Silicon	ppm	ASTM D5185m		7	7	4
	Potassium	ppm	ASTM D5185m		24	19	7
	Fuel	%	ASTM D3524	>5	4.8	▲ 5.5	△ 3.8
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	%	WC Method *ASTM D7844	. 0	NEG 0.7	NEG 0.5	NEG
	Soot % Nitration	Abs/cm		>3	12.5	10.9	0.3 8.5
	Sulfation	Abs/.1mm	*ASTM D7024		26.5	23.1	20.7
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	0 15		AOTM DE LOS	450	• • • • • • • • • • • • • • • • • • • •		
	Sodium	ppm	ASTM D5185m ASTM D5185m		2	<1	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm			<1 0	5 0	0
	Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m		65	64	55
	Manganese	ppm	ASTM D5185m	100	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	1073	946	927
	Calcium	ppm	ASTM D5185m		1231	1093	992
	Phosphorus	ppm	ASTM D5185m		1083	980	984
	Zinc	ppm	ASTM D5185m		1369	1250	1258
	Sulfur	ppm	ASTM D5185m		3572	3128	3077
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.5	19.7	17.0
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	4.7	6.4	8.3
	Visc @ 100°C	cSt	ASTM D445	14.4	<u> </u>	<u>▲</u> 12.1	12.4







Certificate L2367

Laboratory Sample No.

Lab Number : 06213172

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RPL0021024

Received **Tested** Unique Number : 11086036 Diagnosed Test Package: FLEET (Additional Tests: PercentFuel)

: 18 Jun 2024 : 20 Jun 2024

: 20 Jun 2024 - Wes Davis

RTL PACLEASE - 7006 - Pico Rivera 7837 Telegraph Rd

Pico Rivera, CA US 90660

Contact: GERARDO CARROLA carrolag@rushenterprises.com T:

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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