WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL

OIL ANALYSIS REPORT

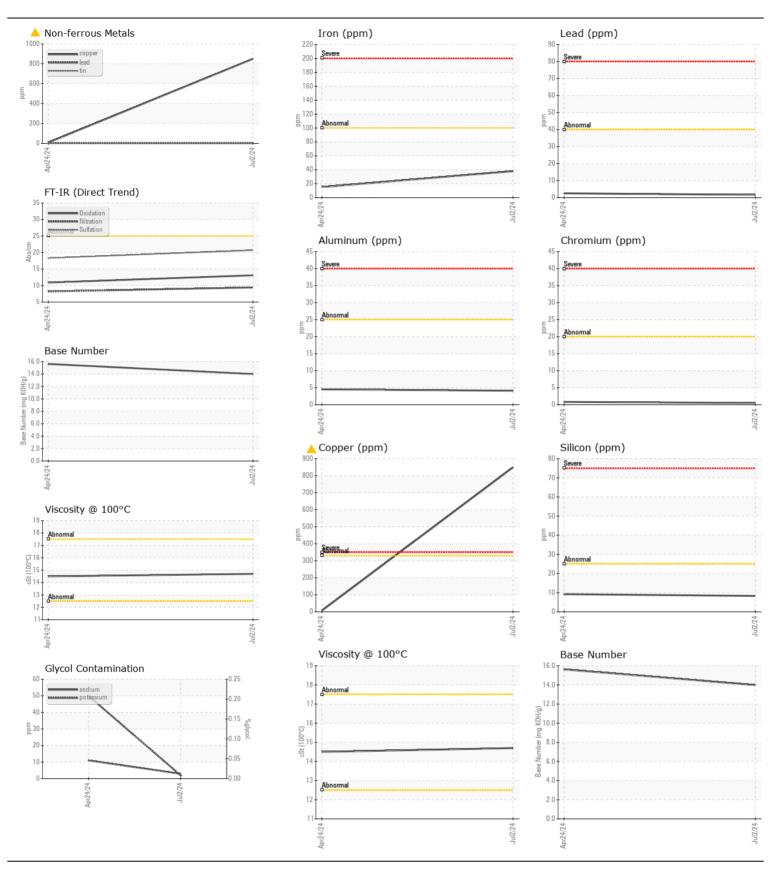
Machine Id

## **PETERBILT 1**

Diesel Engine

TRC MOLY XL PRO-SPEC IV XP 15W40 (13 GAL)

DECOMMENDATION	Toot	11014	Mathad	Limit/Alex	Current	Lliotom:4	Llicta
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.	Sample Number		Client Info		TR06235153	TR06165204	
	Sample Date	la	Client Info		02 Jul 2024	24 Apr 2024	
	Machine Age	mls	Client Info		673348	662175	
	Oil Age	mls	Client Info		19809	8636	
	Filter Age	mls	Client Info		19809	8636	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR  The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	38	15	
	Chromium	ppm	ASTM D5185m	>20	<1	<1	
	Nickel	ppm	ASTM D5185m	>2	<1	<1	
	Titanium	ppm	ASTM D5185m	>2	<1	<1	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m		4	4	
	Lead	ppm	ASTM D5185m		2	2	
	Copper	ppm	ASTM D5185m		<u>^</u> 849	7	
	Tin	ppm	ASTM D5185m		2	2	
	Vanadium	ppm	ASTM D5185m	710	0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal		*Visual	NONE	NONE	NONE	
<u></u>		scalar	visuai		NONE	INOINL	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	9	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	<u></u> 50	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	%	*ASTM D2982		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.5	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.2	
	Sulfation	Abs/.1mm	*ASTM D7415		20.7	18.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		3	11	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		8	5	
	Barium	ppm	ASTM D5185m		0	1	
	Molybdenum	ppm	ASTM D5185m		119	119	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		63	96	
	Calcium	ppm	ASTM D5185m		4281	4014	
	Phosphorus	ppm	ASTM D5185m		941	994	
	Zinc	ppm	ASTM D5185m		1158	1089	
	Sulfur	ppm	ASTM D5185m		4909	5356	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	10.9	
			ASTM D2896		13.99	15.62	
	Base Number (BN)	ma kuh/a	AO HVI IJZOSO		10.99	10.07	





Certificate L2367

Laboratory Sample No. Unique Number : 11123987

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06235153 Lab Number : 06235153

Received **Tested** Diagnosed Test Package : MOB 2 ( Additional Tests: Glycol )

: 12 Jul 2024 : 15 Jul 2024

: 15 Jul 2024 - Sean Felton

TRUSKY HAULING LLC PO BOX 14848 TUMWATER, WA US 98511

Contact: NATHAN BYRD

To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - 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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