

OIL ANALYSIS REPORT

Machine Id **PETERBILT TK21** Component Diesel Engine TRC MOLY XL PRO-SPEC III SYNTHETIC15W40 (--- GAL)

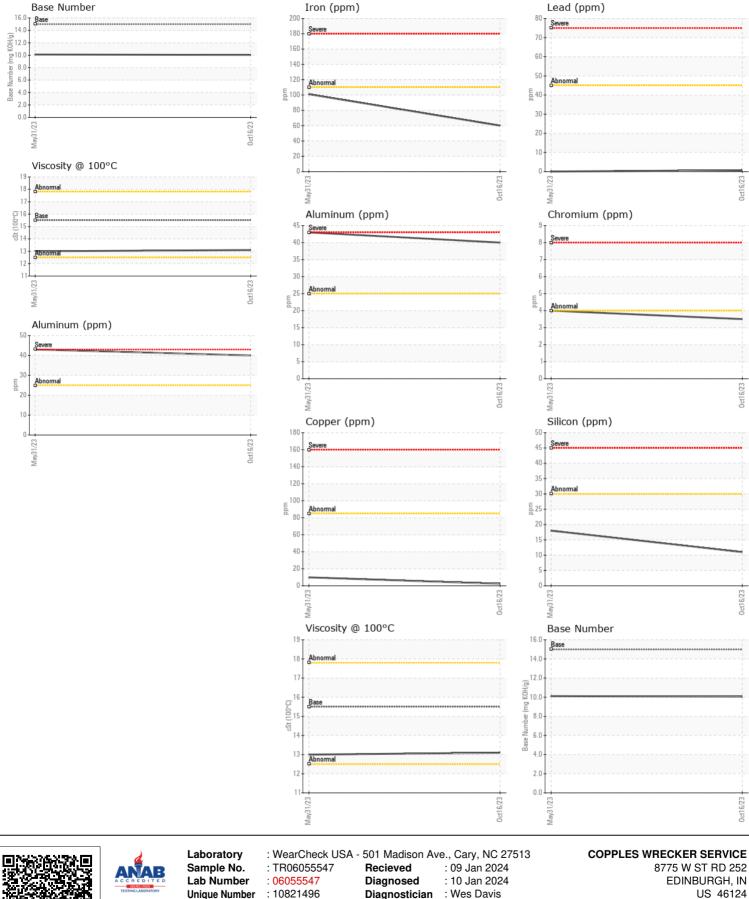
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06055547	TR05879067	
	Sample Date		Client Info		16 Oct 2023	31 May 2023	
	Machine Age	mls	Client Info		83872	50388	
	Oil Age	mls	Client Info		33484	40000	
	Filter Age	mls	Client Info		33484	40000	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		60	101	
	Chromium	ppm	ASTM D5185m		4	4	
	Nickel	ppm	ASTM D5185m	>2	0	1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		40	43	
	Lead	ppm	ASTM D5185m	>45	<1	0	
	Copper	ppm	ASTM D5185m		2	10	
	Tin	ppm	ASTM D5185m	>4	<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Ciliana			00	44	10	
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. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m		11	18	
	Potassium	ppm	ASTM D5185m		104	69	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.5	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	11.6	12.5	
	Sulfation	Abs/.1mm	*ASTM D7415		25.9	26.8	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	0	
	Boron	ppm	ASTM D5185m		4 117	130	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium		ASTM D5185m		0	0	
	Molybdenum	ppm ppm	ASTM D5185m		170	196	
	Manganese		ASTM D5185m		1	2	
	-	ppm	ASTM D5185m		424	485	
	Magnesium	ppm		4500			
	Calcium	ppm	ASTM D5185m	4500	3622	3861	
	Phosphorus	ppm	ASTM D5185m	1400	876	831	
	Zinc	ppm	ASTM D5185m	1400	1040	1017	
	Sulfur	ppm	ASTM D5185m	. 05	3485	3820	
	Oxidation		*ASTM D7414		19.9	23.3	
	Base Number (BN)	mg KOH/g	ASTM D2896	15	10.05	10.11	

Visc @ 100°C cSt

ASTM D445 15.5

13.0

13.1



US 46124 Contact: MARC DEMOTT

Test Package : MOB 2 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)

Certificate L2367

Contact/Location: MARC DEMOTT - COPEDI