OIL ANALYSIS REPORT

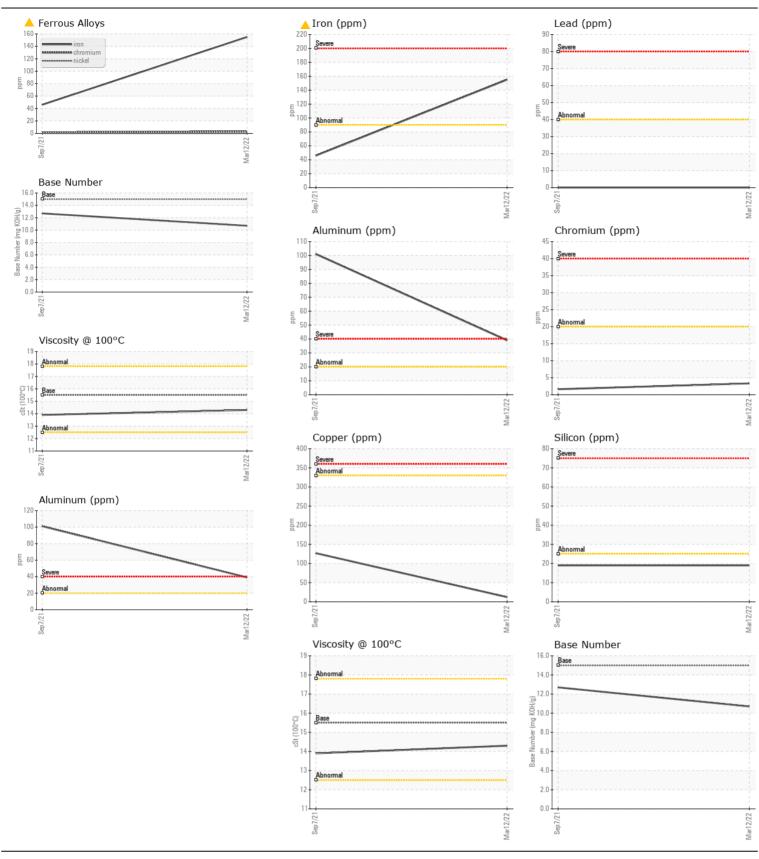
WEAR CONTAMINATION **FLUID CONDITION**

ABNORMAL NORMAL **NORMAL**

PETERBILT TK22

Component Diesel Engine

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	COIVI	Client Info	LIIII(/AU/I	TR05525869		
	Sample Date		Client Info		12 Mar 2022	07 Sep 2021	
	Machine Age	mls	Client Info		0	28712	
	Oil Age	mls	Client Info		32547	18712	
	Filter Age	mls	Client Info		0	18712	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				ABNORMAL	MARGINAL	
WEAR	Iron	ppm	ASTM D5185m		<u> </u>	46	
Cylinder, crank, or cam shaft wear is indicated.	Chromium	ppm	ASTM D5185m		3	2	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		39	101	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		12	127	
	Tin	ppm	ASTM D5185m	>15	<1	<1	
	Vanadium	ppm	ASTM D5185m	NONE	0	<1 NONE	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	19	19	
	Potassium	ppm	ASTM D5185m		78	<u></u> 4 315 <u></u> 315 <u></u> 315 <u> </u>	
Elevated aluminum (AI) 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.	Fuel	1-1-	WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>6	1.3	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	19.8	11.6	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	33.1	25	
	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		2	0	
I LOID CONDITION	Boron	ppm	ASTM D5185m		87	147	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	1	
	Molybdenum	ppm	ASTM D5185m		180	223	
	Manganese	ppm	ASTM D5185m		2	2	
	Magnesium	ppm	ASTM D5185m		496	439	
	Calcium	ppm		4500	3982	4118	
	Phosphorus	ppm	ASTM D5185m		883	871	
	Zinc	ppm	ASTM D5185m	1400	1074	1056	
	Sulfur	ppm	ASTM D5185m		2932	3029	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	31.2	19.3	
	Base Number (BN)				10.7	12.7	
	Visc @ 100°C	cSt	ASTM D445		14.3	13.9	







Certificate L2367

Laboratory Sample No.

: TR05525869 Lab Number : 05525869 Unique Number : 9945149 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Apr 2022 : 25 Apr 2022 **Tested**

: 25 Apr 2022 - Jonathan Hester

Diagnosed

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)

COPPLES WRECKER SERVICE

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