

OIL ANALYSIS REPORT

Machine Id **PETERBILT TK22** Component **Diesel Engine** Fluid **TRC MOLY XL PRO-SPEC III SYNTHETIC15W40 (5 GAL)**

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.



All component wear rates are normal.

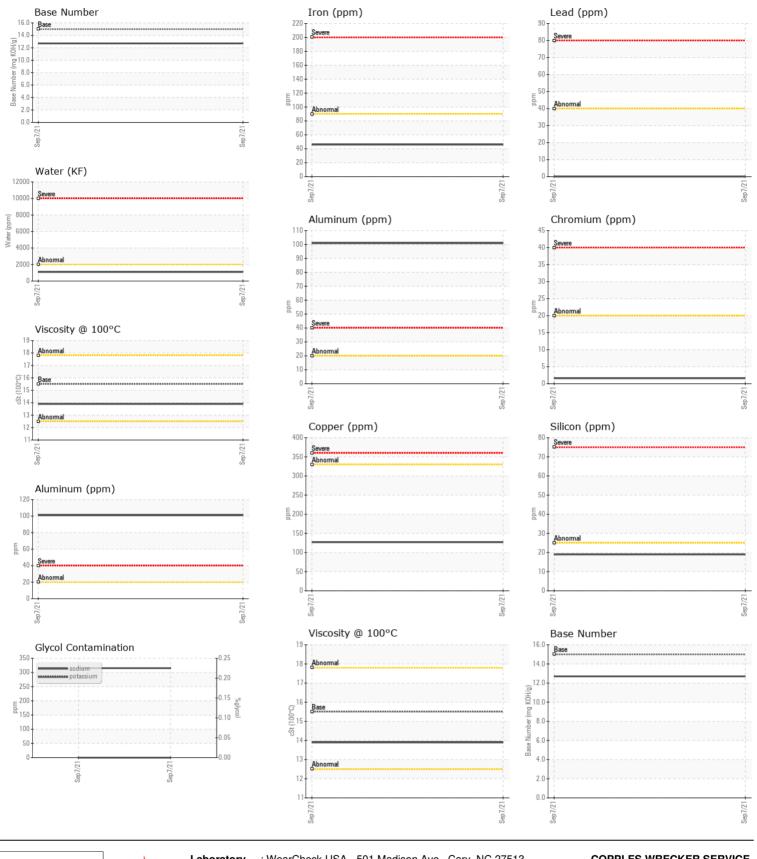
CONTAMINATION

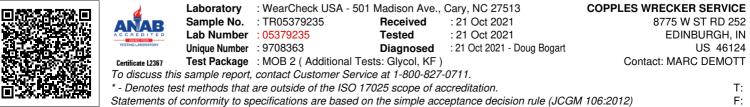
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05379235		
Sample Date		Client Info		07 Sep 2021		
Machine Age	mls	Client Info		28712		
Oil Age	mls	Client Info		18712		
Filter Age	mls	Client Info		18712		
Oil Changed	1113	Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status		Client III0		MARGINAL		
Iron	ppm	ASTM D5185m	>90	46		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	101		
Lead	ppm	ASTM D5185m	>20	0		
Copper		ASTM D5185m	>330	127		
Tin	ppm	ASTM D5185m	>330	<1		
	ppm		C1<	<1		
Vanadium White Metal	ppm	ASTM D5185m *Visual	NONE	<1 NONE		
	scalar			-		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>25	19		
Potassium	ppm	ASTM D5185m	>20	A 315		
Fuel	PP	WC Method	>3.0	<1.0		
Water	%	ASTM D6304	>0.2	0.11		
ppm Water	ppm	ASTM D6304	>2000	1100		
Glycol	%	*ASTM D2982	- 2000	NEG		
Soot %	%	*ASTM D7844	>6	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	11.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	25		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.2	NEG		
Sodium	ppm	ASTM D5185m		0		
Boron	ppm	ASTM D5185m		147		
Barium	ppm	ASTM D5185m		1		
Molybdenum	ppm	ASTM D5185m		223		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		439		
Calcium	ppm	ASTM D5185m	4500	4118		
Phosphorus	ppm	ASTM D5185m		871		
Zinc	ppm	ASTM D5185m	1400	1056		
Sulfur	ppm	ASTM D5185m		3029		
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3		
Base Number (BN)	mg KOH/g	ASTM D2896	15	12.7		
Visc @ 100°C	cSt	ASTM D445	15.5	13.9		
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## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





Contact/Location: MARC DEMOTT - COPEDI

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