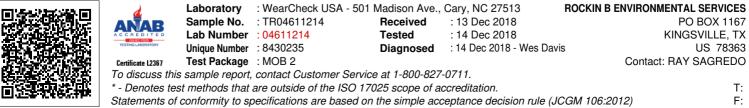


**OIL ANALYSIS REPORT** 

## Machine Id **KENWORTH TT 17** Component **Diesel Engine** TRC PRO-SPEC V SYN BLEND 15W40 (11 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR04611214		
	Sample Date		Client Info		12 Dec 2018		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
				100			
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		4		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m ASTM D5185m		2		
	Lead	ppm	ASTM D5185m ASTM D5185m		<1 <1		
	Copper Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m	>15	0		
	White Metal	ppm scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		Scalai	visuai				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4		
	Potassium	ppm	ASTM D5185m	>20	5		
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	6.8		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.8		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		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	ASTM D5185m		8		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		12		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		148		
	Calcium	ppm	ASTM D5185m		1954		
	Phosphorus	ppm	ASTM D5185m		800		
	Zinc	ppm	ASTM D5185m		933		
	Sulfur	ppm	ASTM D5185m	05	2762		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	11.2		
	Base Number (BN)	mg KOH/g	ASTM D2896		7.17		
	Visc @ 100°C	cSt	ASTM D445		16.39		





Contact/Location: RAY SAGREDO - ROCKIN Page 2 of 2