

OIL ANALYSIS REPORT

## Machine Id FREIGHTLINER 2018 Component Diesel Engine Fluid TRC MOLY PRO-SPEC IV XP 15W40 (10 GAL)

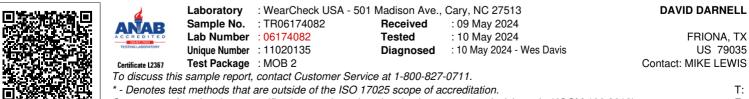
RECOMMENDATION Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR06174082		
	Sample Date	mala	Client Info		04 May 2024		
	Machine Age	mls	Client Info		1016747		
	Oil Age	mls	Client Info Client Info		14200 14200		
	Filter Age	mls					
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>200	7		
	Chromium	ppm	ASTM D5185m	>6	<1		
	Nickel	ppm	ASTM D5185m		1		
	Titanium	ppm	ASTM D5185m	>2	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>50	3		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		7		
	Tin	ppm	ASTM D5185m		1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	6		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3		
	Fuel		WC Method	>3.0	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.6		
	Nitration	Abs/cm	*ASTM D7624	>20	8.2		
	Sulfation	Abs/.1mm	*ASTM D7415		19.3		
	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	000	ASTM D5185m		0		
	Sodium	ppm	ASTM D5185m ASTM D5185m		0		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m		44 0		
		ppm	ASTM D5185m		84		
	Molybdenum Manganese	ppm ppm	ASTM D5185m		-04 <1		
	Magnesium		ASTM D5185m		<1 524		
	Calcium	ppm	ASTM D5185m		524 1375		
	Phosphorus	ppm	ASTM D5185m		728		
	Zinc	ppm	ASTM D5185m		838		
	Sulfur	ppm	ASTM D5185m		2931		
	Oxidation	ppm Abs/.1mm	*ASTM D5185111	>25	16.3		
	Base Number (BN)			220	8.68		
			ASTIVI D2090		0.00		

Visc @ 100°C cSt

ASTM D445

16.1





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Contact/Location: MIKE LEWIS - DAVFRI Page 2 of 2