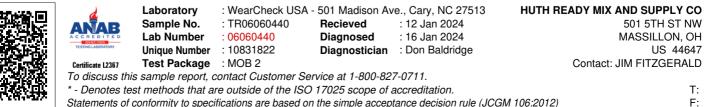


OIL ANALYSIS REPORT

Machine Id **MACK CV713 84** Component Diesel Engine TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (9 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06060440		
	Sample Date		Client Info		05 Dec 2023		
	Machine Age	hrs	Client Info		15262		
	Oil Age	hrs	Client Info		370		
	Filter Age	hrs	Client Info		370		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
				100	07		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		27		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		1		
	Copper	ppm	ASTM D5185m		16		
	Tin	ppm	ASTM D5185m	>15	1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6		
CONTAMINATION	Potassium	ppm	ASTM D5185m		1		
There is no indication of any contamination in the oil.	Fuel	ррп	WC Method		۰ <1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	20.2	NEG		
	Soot %	%	*ASTM D7844	>1	2.9		
	Nitration	Abs/cm	*ASTM D7624	>20	7.6		
	Sulfation	Abs/.1mm	*ASTM D7024		21.6		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
		scalar	*Visual	NORML	NORML		
	Appearance Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water			>0.2	NEG		
		scalar	*Visual	>0.2	INEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
	Boron	ppm	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.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		- <1		
	Magnesium	ppm	ASTM D5185m		20		
	Calcium	ppm	ASTM D5185m		4494		
	Phosphorus	ppm	ASTM D5185m		949		
		ppm	ASTM D5185m		1072		
	Zinc						
	Zinc Sulfur		ASTM D5185m		3930		
	Sulfur	ppm	ASTM D5185m *ASTM D7414	>25	3930 8.8		
			ASTM D5185m *ASTM D7414 ASTM D2896	>25	3930 8.8 10.66		





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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