

OIL ANALYSIS REPORT

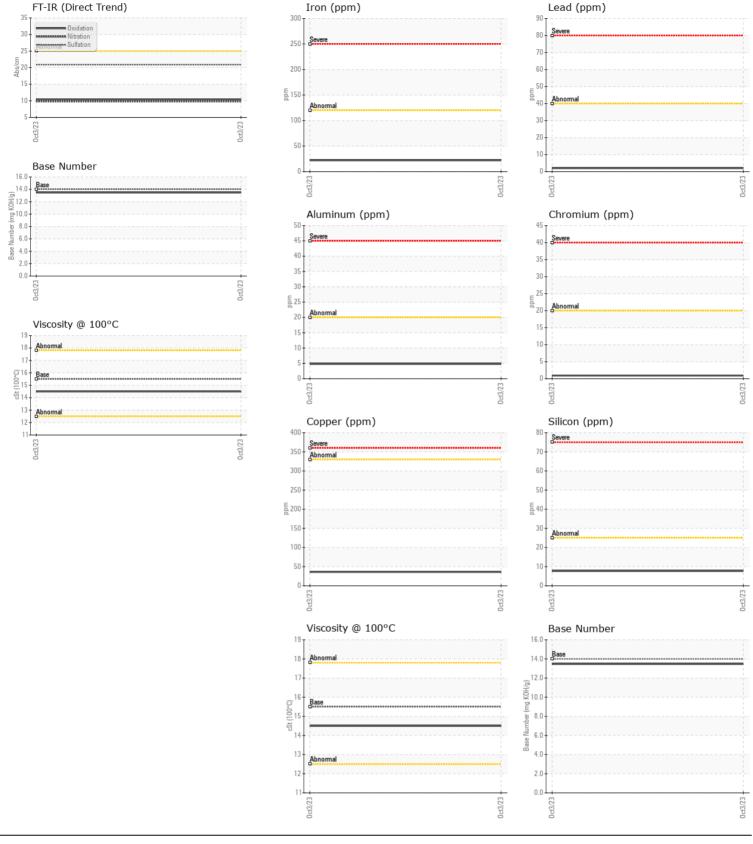
Machine Id MACK 199 Component Diesel Engine Fluid TRC MOLY XL PRO-SPEC IV 15W40 (31 QTS)

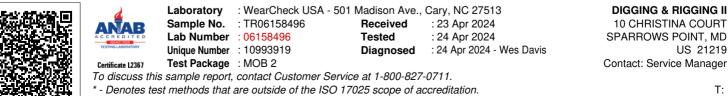
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR06158496		
Resample at the next service interval to monitor.	Sample Date		Client Info		03 Oct 2023		
	Machine Age	mls	Client Info		515438		
	Oil Age	mls	Client Info		10000		
	Filter Age	mls	Client Info		10000		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
	las a			400			
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		22		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		36		
	Tin	ppm	ASTM D5185m	>15	1		
	Vanadium	ppm	ASTM D5185m	NONE	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8		
CONTAMINATION	Potassium	ppm	ASTM D5185m		4		
There is no indication of any contamination in the oil.	Fuel	ρριιι	WC Method	>3.0	۔ <1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	20.L	NEG		
	Soot %	%	*ASTM D7844	<u>\</u> 4	1.4		
	Nitration	Abs/cm	*ASTM D7624	>20	9.8		
	Sulfation	Abs/.1mm	*ASTM D7024		20.9		
	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		
		Jouran	VISUUI	20.L			
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.	Sodium	ppm	ASTM D5185m		11		
	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		159		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		18		
	Calcium	ppm	ASTM D5185m	1300	4096		
	Phosphorus	ppm	ASTM D5185m		932		
	Zinc	ppm	ASTM D5185m	1300	1040		
	Sulfur	ppm	ASTM D5185m		4436		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	10.4		
	Base Number (BN)				13.47		
		0°+	ACTM D445	15.5	145		

Visc @ 100°C cSt

ASTM D445 15.5

14.5





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

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Contact/Location: Service Manager - DIGSPA Page 2 of 2

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