

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



## Machine Id MACK RT300 353 (S/N BXS22437)

Diesel Engine

SHELL ROTELLA T 15W40 (--- GAL)

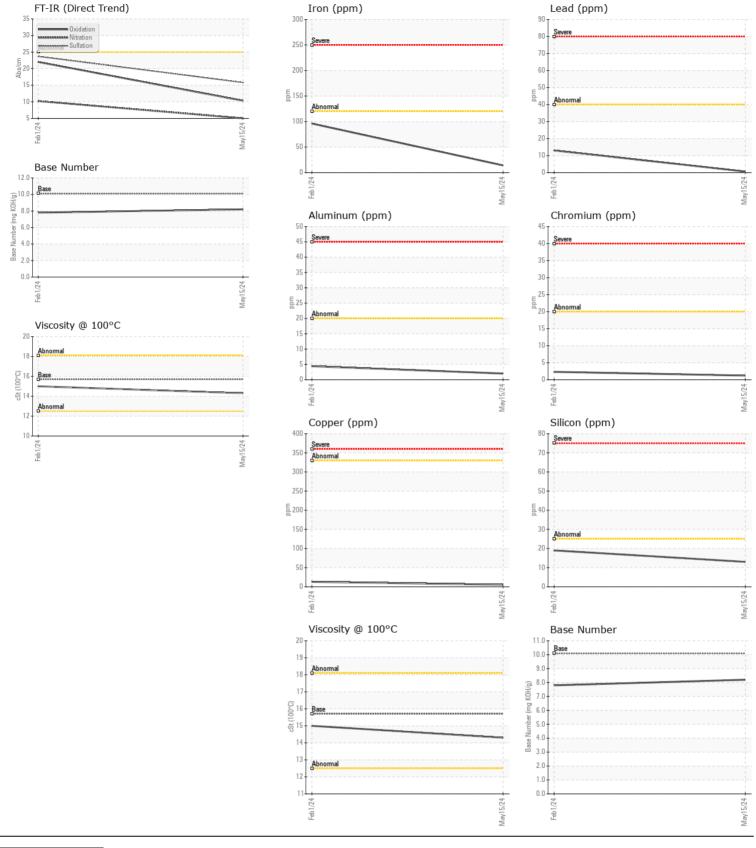
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0878948	WC0878900	
	Sample Date		Client Info		15 May 2024	01 Feb 2024	
	Machine Age	mls	Client Info		210288	210101	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>120	14	96	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	2	
	Nickel	ppm	ASTM D5185m		- <1	1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver		ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m		2	4	
	Lead	ppm	ASTM D5185m	>40	∠ <1	13	
	Copper	ppm	ASTM D5185m		5	13	
	Tin	ppm ppm	ASTM D5185m		-5 <1	2	
	Vanadium		ASTM D5185m	>15	<1	<1	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal			NONE	NONE	NONE	
		scalar	*Visual	INOINE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	13	19	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	5	7	
	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>4	0.1	0.6	
	Nitration	Abs/cm	*ASTM D7624	>20	5.0	10.2	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	15.8	23.7	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	3	
	Boron	ppm	ASTM D5185m	316	28	4	
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	0	
	Molybdenum	ppm	ASTM D5185m		23	63	
	Manganese	ppm	ASTM D5185m	1.2	<1	2	
	Magnesium	ppm	ASTM D5185m	24	220	940	
	Calcium	ppm	ASTM D5185m		1984	1196	
	Phosphorus	ppm	ASTM D5185m		923	1065	
	Zinc		ASTM D5185m		923 1119	1351	
	Sulfur	ppm	ASTM D5185m		3900	2805	
	Oxidation	ppm Abs/.1mm	*ASTM D5185111		10.3	2805	
	Base Number (BN)				8.2	7.8	
	Dase Nulliber (BN)	niy KOR/g	ASTIVI D2096	10.1	0.2	1.0	

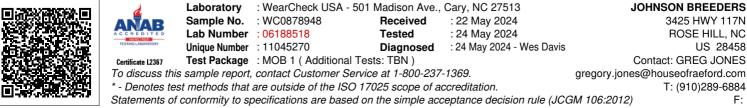
Visc @ 100°C cSt

ASTM D445 15.7

15.0

14.3





Contact/Location: GREG JONES - JOHROSNC Page 2 of 2