

NORMAL WEAR NORMAL CONTAMINATION FLUID CONDITION NORMAL

1

Machine Id **MACK 176**

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

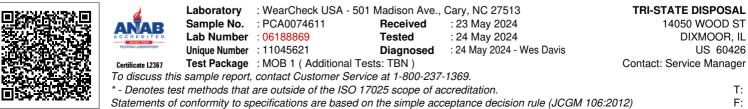
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		PCA0074611		
	Sample Date		Client Info		11 Mar 2024		
	Machine Age	hrs	Client Info		15500		
	Oil Age	hrs	Client Info		350		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m		8		
	Chromium	ppm	ASTM D5185m	>20	0		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m	>2	83		
	Silver	ppm	ASTM D5185m	>2	<1		
	Aluminum	ppm	ASTM D5185m	>20	3		
	Lead	ppm	ASTM D5185m	>40	<1		
	Copper	ppm	ASTM D5185m	>330	5		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		5		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4		
	Fuel		WC Method	>3.0	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>4	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	9.3		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0		
	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		4		
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		128		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	100	5		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		486		
	Calcium	ppm	ASTM D5185m		1889		
	Phosphorus	ppm	ASTM D5185m		1090		
	Zinc	ppm	ASTM D5185m		1313		
	Sulfur	ppm	ASTM D5185m		4665		
	Oxidation	Abs/.1mm	*ASTM D7414		15.5		
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.9		
		0.1					

Visc @ 100°C cSt

ASTM D445 14.4

14.1





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