



On-Site Machinery Service

152 Frenchtown Rd.
Milford, NJ 08848
732.693.8312

<p>CUSTOMER INFORMATION John A. Doe ABC Machinery Inc. 31 Maple Av. Toledo, OH 43608</p>

<p>ENGINE INFORMATION 1992 Deere 4.5L Installed in 5420 tractor Functional exhaust system Idle RPM setting ~750</p>
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PARAMETER	VALUE
Knock Frequency- Highest amplitude	0-15,000Hz
Knock Frequency- 2 nd Highest Amplitude	700-1,200Hz
Knock Frequency- 3 rd Highest Amplitude	4,000-5,100Hz
Mechanical problem present?	Yes
Cylinders affected?	2
Most likely rotating assy. OR valvetrain	Rotating assy.
Mass of component causing problem knock	1,734g (3.82#) +/- 25%
<p>Notes</p> <p>Data is consistent with an excessive clearance in the connecting rod bearings. Time order indicates 2 cylinders affected. Amplitude rise of event in question is consistent with need for new crank or undersize bearings- replacement of bearing shells alone is generally not sufficient to repair the problem once the noise is as pronounced as in this recording</p>	