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## Diesel Hammer Lubrication and Daily Check List

Check fuel and oil every morning prior to starting

**Use #2 Diesel fuel** (Unless site conditions requires otherwise)  
(Consult APE for alternative fuel types)

**Use APE recommended Lube Oil**  
(Schaeffer Synthetic Two Stroke Motor Oil with Friction Modifier)  
\*(The above oil must be used when driving batter pile)  
(Belray Synthetic Two-stroke motor oil)  
(Either of the two above Synthetic Two Stroke Motor Oils is OK for Plumb Pile)  
(Consult APE for alternative oil types)

When adding fuel and oil to the hammer check the usage rate to ensure the hammer is using the proper amount of oil (Approximately 2 tanks of fuel to one tank of oil)

Check Bolts daily and watch hammer as it operates to see loose bolts  
(Loose and broken parts can cause accidents unless they are seen prior to breaking and falling off)

Check bolts on Guide Rails and Trip Gibb's

Check guide rails for cracks in welds

Check hammer for proper oil lubrication  
(The oil lubricates the piston rings and upper cylinder)  
(The grease ports at the bottom of the hammer lubricate the anvil rings)  
(Exhaust ports will be wet and oily, piston will be wet and shiny)  
(Dry Sooty exhaust ports and dark dry piston indicates improper oil usage and must be addressed immediately)

Grease Hammer every **20** minutes of drive time with Belray Hi-Temp Moly Graphite Grease or equivalent.  
(Consult APE for alternative grease types)

10 Blows per inch is practical refusal  
(Do not exceed 120 blows per foot without consulting APE)

\*Failure to use Schaeffer Synthetic Two Stroke Motor Oil with Friction Modifier on batter pile will void warranty.

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