

APE Vibro Check List: *prior to shipment for sale or rental*

Date: _____ Sales Order Number: _____ Vibro S/N: _____ Owned by: _____
 Ship Date: _____ Clamp S/N: _____ Beam S/N: _____

Checking the suppressor:

- Removed all wire rope for insurance reasons
- Checked shackle pin cotter key and nut
- Checked large elastomers for cracks
- Checked small elastomers for cracks
- Inspected all bolts on all elastomers
- Removed and inspected anti-cavitation valve
- Checked pressure on brake valve
- Inspected case drain relief valve (pop off valve)
- Inspected line pull safety pin including bolts
- Inspected suppressor housing mounting bolts
- Inspected entire housing for weld failures
- Installed two stage suppressor sticker
- Installed safety line pull warning sticker
- Installed daily maintenance check list sticker
- Inspected all hoses on suppressor
- Inspected all hydraulic fittings on suppressor
- Inspected all fittings on rifle bored top plate
- Removed any foreign steel welded to suppressor
- Welded and shaped any imperfections

Vibro gearbox:

- Removed and cleaned sight glass
- Checked gearbox oil level
- Flushed gearbox with filter system
- Changed gearbox oil and added SCH 629 Mobil
- Removed and cleaned magnetic drain plug
- Checked/replaced damaged bearing cover bolts
- Removed, cleaned, and reinstalled breather
- Checked motor bearing cover bolts
- Checked bottom of gearbox- all mounting holes
- Ran drill tap down each mounting hole & cleaned
- Ran straight edge across bottom of gearbox
- Checked entire clamp mounting surface
- Checked hydraulic motor mounting bolts
- Checked motor couplers for leaks and loose bolts
- Torqued down motor coupler mounting bolts
- Inspected entire gearbox for weld cracks
- Removed unauthorized welding on gearbox
- Removed bearing covers to inspect bearings
- Inspected inner and outer races of each bearing

Clamp attachment: please circle one

Type: sheet wood concrete caisson other

Length of beams: _____

Describe pile type: _____

Checked to see if salesman knows pile thickness

Pile wall thickness is: _____

I am sure the jaws will open wide enough

Torqued mounting bolts- they are tight!

Replaced worn jaws, inspected teeth and bolts

Put a wrench on fixed jaw bolts- confirmed tight

Comments: _____

- Inspected pin in moveable jaw
- Put spare pin in tool box
- Provided spare allen wrench for jaws
- Checked fittings on clamp cylinder
- Inspected clamp housing for cracks
- Serial number welded with SS rod
- Greased slide, replaced zert if required
- Inspected all clamp hoses & fittings
- Installed hose retaining clips
- Removed air from clamp lines
- Stroked jaws open and closed 3 times
- Spare back up jaws inspected and loaded
- Put extra clamp bolts in tool box
- Final visual check for cracks in jaws
- Provided two extra clamp mount bolts

Vibro test

- Cleaned quick disconnects
- All quick disconnects have caps & plugs
- Inspected o-rings on quick disconnects
- Put spare o-ring kit in tool box
- Closed jaws and checked hoses for leaks
- Checked clamp pressure- hoses attached
- Clamp close light comes on properly

Test data

Free hang drive pressure is: _____
 Cycles per minute with photo tach: _____
 Temperature of hyd oil: _____

Tips for APE service technicians:

Prior to removing clamp lines, release pressure by opening the jaws.

Checking the oil level in the vibro gearbox may be impossible if the sight glass is dirty. Remove the sight glass and spray it with some starting fluid. Then re-install, making sure you use some pipe thread tape to seal the fitting.

Oil level should be in the middle of the site glass. Overfilling will cause overheating.

If the unit is going to operate in extremely cold weather then alternate fluids must be used. In addition, change 0-rings on QD's and split flanges of vibro from 90 to 70 durameter.

Spare parts:

- | | |
|------------------------------|-------------------------|
| 2 ea. clamp fittings | 1 set spare jaws |
| 1 ea. site glass | 1 ea. spare jaw pin |
| 1ea. socket for site glass | 2 ea. fixed jaw bolts |
| 1 ea. operations manual | 2 ea. clamp mount bolts |
| 2 ea. extra clamp lines | APE hard hat stickers |
| 2 ea. caps & plugs for clamp | APE literature |

Inspected by: _____

Equipment manager approval: _____

Salesman acceptance: _____