

490.

## Zamperla Barnyard lifting cylinder failure

A UK registered inspection body has reported defects and mechanical damage on the lifting cylinders of a Zamperla Barnyard.

The defects were found during the annual inspection, as required by the manufacturer's NDT schedule. The first replacements of these cylinders (2) were found to contain areas of defects and the second replacements of these cylinders (2) were also found to contain areas of defects.

It is believed that both the defects (figure 1) and mechanical damage (figures 2 & 3) originated due to grinding marks from the manufacturing process.

The manufacturer has been contacted and final replacement parts (modified cylinder trunnion pins and hinge assembly) have been supplied.



Figure 1



Figure 2



Figure 3



Figure 4