

## **RECORD OF INSPECTION FOR THE WORM AND WHEEL GEARBOX EXAMINATION**

You are required to produce a full report that covers the examination of a gearbox. You must start by producing a method statement covering all aspects of the work, this will include details of all the equipment and tools you intend to use to carry out the work.

You are also required to produce a meaningful risk assessment where you need to consider all the hazards that you may encounter opening up the unit including, disposing of the oil, lifting requirements. Areas where the inspection needs close detail will be the bearing condition and the contact marks. Finally record the bearing setup when rebuilding and the worm/wheel contact marks for the direction of rotation.

The information you need to gather for your report must include all of the following areas:-

- Title & date.
- Your name & group number.
- The type of gearbox.
- Materials of construction.
- Before opening up the unit the general condition of bearings including lift and end float.
- When rebuilding record the blued contact mark and how it relates to the rotation.
- Produce sketches and photo's taken at different stages of the inspection as required for the report.