Methods for Evaluating the Soundness of Equipment

When first used

Inspect Cracks & wear found

Expected progress after certain period of time

- Reduced strength due to expected progression of wear/cracking
- Margin exists Possible to continue
- Fails to meet safety standards, so repair or replacement required

Design strength

Cracks and wear (small)

Cracks and wear (large)

Safety standard*1

Failure limit*2

*1: Safety standard includes a tolerance margin over actual failure limit

*2: Minimum strength for equipment to withstand conditions without failing