# Replacement state of Lifting loop with threaded end

PHILIPPGROUP

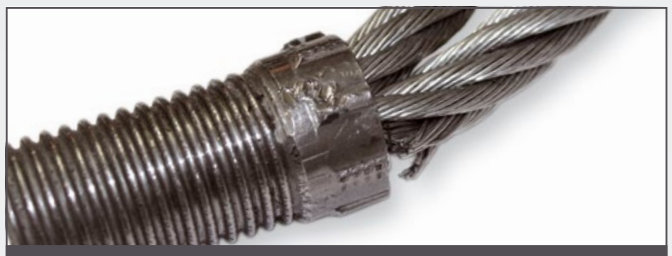
## CRITERIA FOR REPLACEMENT STATE OF LIFTING LOOP WITH THREADED END

Lifting devices are strictly recommended to be insprected by an expert annually considering the following criteria. Depending on the working conditions the inspections might be necessary in shorter intervals than only once a year. This might be caused by frequent use, increased wear, corrosion or heat treatment.

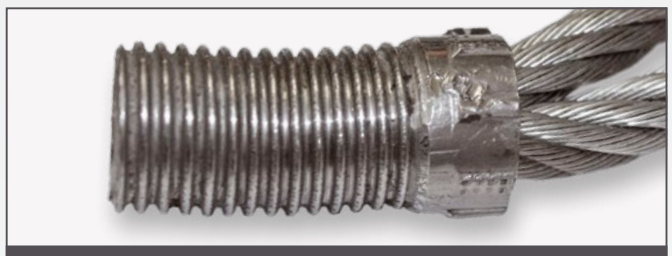
Prior inspection of the Lifting loop it must be cleaned. Within an inspection the following points have to be considered:

Loosening of external layer

Damaged threaded part



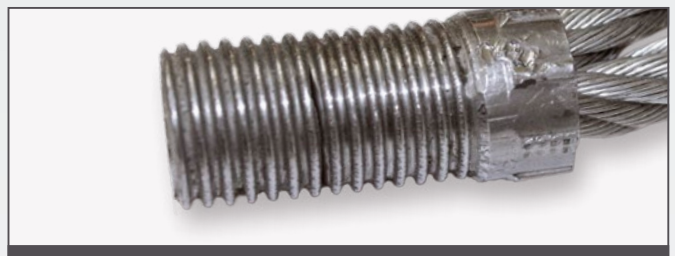
Broken strand



Deformed thread


Broken strand

Contusion in the support area



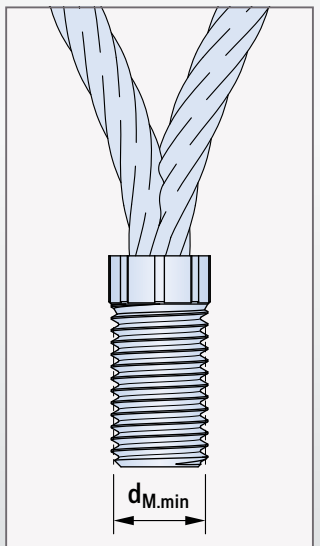
Breakage of the thread

Pull-out of the wire rope from threaded end

- Broken strand (picture)
- Kinks and bends
- Loosening of external layer (picture)
- Contusion in free lengths
- Contusion in the support area of the eye with more than 4 broken wires (picture)
- 4 broken wires on a length of the threefold of the wire rope diameter
- 6 broken wires on a length of the sixfold of the wire rope diameter
- 16 broken wires on a length of the thirtyfold of the wire rope diameter
- Corrosion pits
- Damages, deformation or strong wear and tear of the wire connection (threaded component) (picture)
- Breakage of the wire connection end (threaded part) (picture)
- Deformed thread (picture)
- Welding or other strong heat influences
- Pull-out of the wire rope from threaded end (picture)
- Unreadable or missing tag

### TEST DIMENSIONS

| Load class | $d_{M.min}$ (mm) |
|---|---|
| 12 | 11,50 |
| 14 | 13,50 |
| 16 | 15,45 |
| 18 | 17,40 |
| 20 | 19,40 |
| 24 | 23,40 |
| 30 | 29,40 |
| 36 | 35,40 |
| 42 | 41,20 |
| 52 | 51,20 |




If **one of the above-mentioned points** is fulfilled the Lifting loop with threaded end has reached its replacement state and **must not be used anymore**.

**TO BE REPLACED**

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