Dear Sirs and Mesdames

This service letter contains important information regarding introduction of elongation measurement in connection with hydraulic tightening of bolts.

The elongation measurement is introduced to reduce possible failures in connection with hydraulic tightening of bolts such as:

- Insufficient hydraulic pressure
- Missing pressure at one or more of the hydraulic jacks due to incorrect fixing of hydraulic snap coupling at the hose connection

With the introduction of elongation measurement the elongation of each bolt is monitored during the tightening process and hereby it is possible to determine if the correct hydraulic pressure has been applied to each bolt.

Please see page 2 for further information.

In case you have any questions or comments, please forward your mail to Engineering-Support-Holeby@man-es.com with reference to this service letter.

Yours faithfully

Mikael C. Jensen
Vice President,
Engineering

Henrik Møller Hansen
Senior Manager,
Production Support
The tightening procedure with elongation measurement is as follows:

1. Install the hydraulic jacks with measuring device on the bolts concerned.
2. Apply the prescribed pressure according to the specification e.g. 200 bar and adjust the dial gauge to “0”.
3. Increase the pressure to the specified tightening pressure and tighten the hydraulic nut.
4. Reduce the pressure to 0 bar.
5. Increase the pressure to the prescribed level again.
6. Read off the elongation at the dial gauge and check that the value is within the specification.
7. Release the pressure and remove the tool.

By introducing the elongation measurement we also have changed the retightening procedure after overhaul as follows:

**Without elongation measurement:** Retightening must be done according to SL2015-606.

**With elongation measurement:** No retightening needed.

*Fig 1: Measuring tool, 1 pc hydraulic jack will be needed.*

The measuring tool needed for the elongation measurement is available through our Worldwide PrimeServ organisation.