

| Date: | No: | Page: |
|------------|-----------|--------|
| 25.05.2022 | TB2022-05 | 1 of 1 |

| Applies to: | | Bulletin subject: |
|----------------|----------|--------------------------------|
| WTD | X | Accumulator Maintenance |
| SAFETY WINDOWS | | |
| AUTOMATION | | |
| Created by: | | KHA |
| Approved by: | | |

Maintenance of accumulator

According to Maintenance instructions for IMS sliding watertight doors with hydraulic drives. According to SOLAS CHAPTER II-1 CONSTRUCTION - STRUCTURE, SUBDIVISION AND STABILITY, MACHINERY AND ELECTRICAL INSTALLATIONS, the watertight doors shall be periodically inspected at sea at least once a week. IMS functional test procedure is carried out to make sure that the hydraulic system together with the door fully functional and capable of closing even if there should be a power outage.

As a result of this, symptoms of a worn accumulator should be visible in the form of non linear movements of the door as a result of nitrogen from gas side into the oil side.

Should this occur during the 3 stroke test, the Accumulator is due for refurbishment in form of replacing the piston with seals or replacing the whole accumulator. For older than 2015 models, please see technical bulletin TB2019-02 regarding upgrade kit.



Picture 1 Typical accumulator



Picture 2 New accumulator piston and end cap kit

In general, with regards to any amount of operations, IMS recommend to refurbish / replace accumulators after a maximum of 10 years. This can be performed at IMS, by IMS or qualified personell only according to IMS procedure. Lead time for accumulator is 6-12 weeks.

Please contact: service@imstec.no for further information.