



Thordon Bearing Inc  
3225 Mainway,  
Burlington,  
Ontario,  
L7M 1A6  
Canada

Our ref TSO/25-041525

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Lloyd's Register Marine and Offshore India LLP  
Global Technical Support Center  
Units 1702-1704, 17th Floor (level 13),  
Building Q2, Aurum Qparc; Gen 4/1 TTC,  
Thane-Belapur Road, Ghansoli, Navi Mumbai  
India

Tel : +919228850430  
Email: [tuhin.halder@lr.org](mailto:tuhin.halder@lr.org)  
<http://www.lr.org>

**Approval in Principle of T-BOSS Design – Mechanical Aspects  
Thordon Bearing**

1. Lloyd's Register has reviewed and has Approved in Principle the Thordon T-BOSS (Thordon Blue Ocean Open Stern Space) for seawater lubricated propeller shaft bearing system:
  - a. With the following machinery items:
    - i. Single COMPAC bearing in bronze carrier with tapered keyset
    - ii. Bronze shaft liner
    - iii. Thordon Water Quality package(s)
    - iv. Thordon BCM (Bearing Condition Monitoring)
    - v. Forward seal.

Where the following Rules and Regulations have been considered:

Lloyd's Register's Rules and Regulations for the Classification of Ships, July 2025

Lloyd's Register's Rules and Regulations for the Classification of Special Service Craft, July 2025

2. The AIP method used to determine this AIP has been agreed by the appropriate LR Technical Authority. Based upon the information provided there are no conceptual issues related to the design with regards to the appropriate regulatory requirements.
3. Where this system is proposed to be installed the structural effects of the vessel are to be considered on a ship-by-ship basis and is to meet LR's Rules and Requirements for structural aspects.
4. This AIP does not guarantee design approval for certification because there may be technical or regulatory challenges that prevent approval when details of the design are subjected to full application of appraisal of the final design, and the normal rigors of third-party certification.





5. The documentation on which this AIP is based:

| Document No. | Revision | Document Title                                            |
|--------------|----------|-----------------------------------------------------------|
| TG-42125     | P1       | Thordon compac Aft sterntube bearing assembly             |
| -            | -        | T-BOSS typical shafting arrangement                       |
| -            | -        | T-BOSS typical shafting arrangement – forward view        |
| -            | -        | T-BOSS – Thordon – Blue Ocean Open Stern Space – brochure |
| -            | -        | Asbestos free declaration                                 |
| 93649 R008   |          | ISO 9001: 2015 certificate                                |
| -            | -        | LR approval certificate Thordon COMPAC                    |
| 09370/F1 BV  | -        | BV approval certificate WQP                               |
| -            | -        | LR approval certificate BCM                               |
| T2258617     | -        | ABS Approval in Principle for T-BOSS                      |

6. The scope of this Approval in Principle is covered in paragraphs 1 to 5 above and has considered mechanical aspects only. To gain Classification approval this design will have to meet all the detailed Classification requirements as the design is developed. Based on the evidence presented so far it is believed that this will be possible, providing robust and professional engineering design development is used.

Tuhin Halder  
Specialist MEC  
Mumbai Technical Support Office  
Lloyd's Register Marine & Offshore India LLP  
Email: [tuhin.halder@lr.org](mailto:tuhin.halder@lr.org)

Jenny Wilson  
Principal Specialist  
Global Machinery Team  
Global Engineering Team  
Direct Tel No. +44 (0) 3304140339

