



Additional Company /
Plant Detail

Confirmation of Type
Approval

19-HS1890908-PDA

Company Name Detail:

Company Information

TIDES MARINE INC.

3251 S.W. 13TH DRIVE

FL 33442

United States

Tel 800-420-0949

Fax 954-420-0945

| Certificate Number | Category | Expiry Date |
|--------------------|----------|---------------------|
| 19- FL3610950 | RQS | 20- JAN-202 4 |

Product Seals, Shaft Seals

Model FSK

Intended Service Sealing inboard Drive Shafts for new Construction or Retrofits on Pleasure or Commercial Craft.

Description A Drive Shaft Sealing System consisting of a WaterLubricated Housing Assembly and integral Lip Seal attached to the Vessel with Silicone Hose and Hose Clamps. Hose Adapter available to fit on an Existing Drive Shaft through-hull Flange to a Hose connection, for New Construction and Retrofits, on Pleasure or Commercial Craft.

Ratings For drive shaft sizes from 3/4" - 8" or 20 mm - 200 mm, from 0 - 10,000 rpm, and water temperatures from 32°F - 90°F.

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| Service Restrictions | Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. |
| Comments | <p>1) The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.</p> <p>2) The hose material and that of the lip seal is to be suitable for the intended service. The burst pressure of the hose is not to be less than four times the design working pressure. In general, the hose may be installed in a system provided it is visible at all times, easily accessible, and confined to one watertight compartment in conjunction with the provisions of 4-4-1/9.19 of the ABS Guide for Building and Classing Yachts.</p> <p>3) The equipment should be visually inspected by the attending Surveyor during periodic surveys, with particular attention being given to the flexible hose assemblies and nitrile lip seals. These are to be replaced if deemed necessary.</p> <p>4) The manufacturer's recommended installation procedures are to be followed.</p> |
| Notes, Drawing and Documentation | <p>Part No. FSA-5000-6500-1, Rev. (B); Bill of Materials for 5" x 6-1/2" Shaft Seal</p> <p>Part No. FSH-5000-6500-1, Rev. (-); Strong Body Housing for 5" Shaft Seal</p> |
| Term of Validity | <p>This Product Design Assessment (PDA) Certificate remains valid until 28/Aug/2024 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).</p> <p>Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.</p> <p>This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.</p> |
| ABS Rules | <p>Rules for Conditions of Classification, Part 1 - 2019, 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: 2019 Guide for Building and Classing Yachts: 4-3-1</p> <p>Rules for Conditions of Classification, Part 1 - 2019 High-Speed Craft Rules 1-1-4/11.9, 1-1-A2, 1-1-A3, which covers the following: 2019 Rules for Building and Classing High-Speed Craft: 4-3-1</p> |
| National Standard | NA |

| Model Certificate | Model Certificate # | Issue Date | Expiry Date |
|--------------------------|----------------------------|-------------------|--------------------|
| PDA | 19-HS1890908-PDA | 29-AUG-2019 | 28-AUG-2024 |