



### ***Confirmation of Product Type Approval 05/APR/2012***

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This is to certify that, pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 20/NOV/2013. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 10/JAN/2016 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

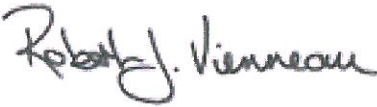
ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

#### **TIDES MARINE INC. Model Name(s): K**

**Presented to:**  
TIDES MARINE INC.  
3251A S.W. 13TH DRIVE  
DEERFIELD BEACH  
United States

<b>Intended Service:</b>	Marine Application - Recommended for Installation in conjunction with Sure Seal Drive Shaft Seals.
<b>Description:</b>	The spare lip seals are used to replace worn lip seals. Replacement does not require the installer to uncouple the drive shaft, and the work can be completed while the vessel is in the water. A Kit consisting of a protective Housing containing one or two lip Seals ready for use as replacements for worn lip seals in the Tides Marine Sure Seal Drive Shaft Sealing System.
<b>Ratings:</b>	For all Sizes Sure Seal Shaft Seals
<b>Service Restrictions:</b>	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.
<b>Comments:</b>	1.) The Equipment should be visually Inspected by the attending Surveyor during Periodic Surveys, with particular attention being given to the Nitrile Lip Seals. These are to be replaced if deemed necessary. 2.) The Manufacturer's recommended Installation Procedures are to be followed 3.) Replacement does not require the Installer to uncouple the Drive Shaft. The Work can be completed while the Vessel is the water
<b>Notes / Documentation:</b>	Support Dwgs Body Seal Carrier Housing: KH3500-00, Rev. - 3½" Shaft; KH1000-00, Rev A - 1" Shaft; KH6000-00, Rev. - 6" Shaft; KM-30M-00, Rev. - 30 mm Spare Seal Carrier; KM-130M-00, Rev. - 130 mm Spare Seal Carrier; KMH-130M-00, Rev. - Seal Carrier for 130 mm Shaft;

<b>Term of Validity:</b>	This Product Design Assessment (PDA) Certificate 01-HS109481E-3-PDA, dated 11/Jan/2011 remains valid until 10/Jan/2016 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.		
<b>ABS Rules:</b>	2011 Steel Vessels Rules 1-1-4/7.7, 1-1-Appendix 3; 2000 ABS Guide for Building and Classing Motor Pleasure Yachts Section 19.9; 2001 Guide for Building and Classing High-Speed Craft 4/7.8		
<b>National Standards:</b>	2005 ABYC Recommendations,		
<b>International Standards:</b>			
<b>Government Authority:</b>			
<b>EUMED:</b>			
<b>Others:</b>	Refer to the Manufacturer's Website ( <a href="http://www.tidesmarine.com">www.tidesmarine.com</a> ) for Standards, Ratings and Sizes		
<b>Model Certificate</b>	<b>Model Certificate No</b>	<b>Issue Date</b>	<b>Expiry Date</b>
PDA	01-HS109481E-3-PDA	11/JAN/2011	10/JAN/2016
 ABS Programs			
ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.			