



Confirmation of Product Type Approval

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product. This certificate reflects the information on the product in the ABS Records as of the date and time the certificate is printed.

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 02/APR/2016. 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 26/JUN/2019 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.

Product Name: Oil Water Separation System

Model Name(s): Boss 2.2T/107, Boss 5T/107, Boss 11T/107, Boss 25T/107, and Boss 45T/107

Presented to:

RECOVERED ENERGY, INC.
11455 N. RIO VISTA RD
United States

Intended Service:

Marine & Offshore Applications - For processing oily mixtures of machinery space bilges prior to being discharged overboard.

Description:

Oily Water Separation System - Oil Filtering (15 PPM) Equipment.

Tier:

3

Ratings:

Capacity gpm (m³/h): Boss 2.2T/107 at 2.2gpm (0.5); Boss 5T/107 at 5gpm (1.2); Boss 11T/107 at 11gpm (2.5); Boss 25T/107 at 25gpm (5.7); Boss 45T/107 at 45 gpm (10.2); Operating Pressure: 15 psig; Operating Temperature: 5°C to 60°C;

Service Restrictions:

Unit Certification is not required for this product. If 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. To be used with approved Oil Content monitor (OCM) only. Approved OCM's include Monitors provided by Deckma, Rivertrace, Bristol Babcock (NEMA 7 enclosure) or others which have been tested by an approved laboratory and found to confirm to IMO MEPC.60(33), Annex I & 107(49). If fitted on vessels of 10,000 tons gross and over, the equipment is to be fitted with an alarm and an arrangement to automatically stop the discharge when 15PPM cannot be maintained.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. The Rules applicable to this assessment are:

Notes / Documentation: Supporting Documentation Coast Guard Approval Number: 162.050/9034/0; Expires: 06 September 2018; Approved: 06 September 2013; No Changes Letter - ABS USCG Certs 06_HS197869_1_EC BOSS 25T-107, Rev-L2

Term of Validity: This Product Design Assessment (PDA) Certificate 14-HS3293896-4-PDA, dated 07/Apr/2015 remains valid until 26/Jun/2019 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.

ABS Rules: Rules for Conditions of Classification, Part 1 2014 Steel Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following: Steel Vessel 4-6-4/5.7;

National Standards:

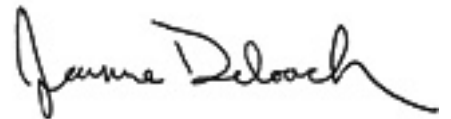
International Standards: MEPC.1/Circ.643 & IMO Res. MEPC.107(49); MARPOL 73/78 & Amend, Annex I, Reg.16

Government Authority: US Coast Guard Approval Number: 162.050/9034/0, 162.050/9054/0, 162.050/9031/0, 162.050/9055/0, 162.050/9033/0;

EUMED: European Union Marine Equipment Directive 96/98/EC as Amended by 2002/75/EC. Item A.1/2.1 of the Directive - Oil filtering equipment (for an oil content of the effluent not exceeding 15ppm).

Others:

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	14-HS3293896-4-PDA	07/APR/2015	26/JUN/2019



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.