



CERTIFICATE NUMBER
14-HS3293896-4-PDA

DATE
07 Apr 2015

CERTIFICATE OF

ABS TECHNICAL OFFICE
Houston SED Machinery - Piping
& Electrical Sys.

DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of
RECOVERED ENERGY, INC.

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Oil Water Separation System**

Model: **Boss 2.2T/107, Boss 5T/107, Boss 11T/107, Boss 25T/107, and Boss 45T/107**

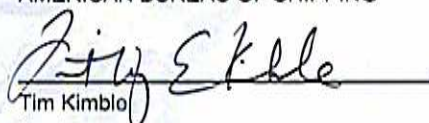
This Product Design Assessment (PDA) Certificate 14-HS3293896-4-PDA, dated 07/Apr/2015 remains valid until 26/Jun/2019 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

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.

AMERICAN BUREAU OF SHIPPING


Tim Kimblo
Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the abovementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by the terms and conditions as contained in ABS Rules 1-4.A3.5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

RECOVERED ENERGY

11455 N. RIO VISTA RD

POCATELLO ID

United States 83202

Telephone: 208-637-0645

Fax:

Email: gary@recoveredenergy.com

Web: www.recoveredenergy.com/oilwater

Tier: 2 - PDA Issued

Product: Oil Water Separation System**Model:** Boss 2.2T/107, Boss 5T/107, Boss 11T/107, Boss 25T/107, and Boss 45T/107**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.

Rating: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 Restriction:

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/Drawing/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

Terms of Validity:

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STANDARDS**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:

NA

International:

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

Government:

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:

NA