



CERTIFICATE NUMBER

DATE

12-HS853232-PDA

27 March 2012

ABS TECHNICAL OFFICE

Houston SED - Ship Systems

CERTIFICATE OF DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of
JWC ENVIRONMENTAL LLC - COSTA MESA

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: **Grinding Machine**

MODEL: **30000, 30001 & 30002**

This Product Design Assessment (PDA) Certificate 12-HS853232-PDA, dated 27/Mar/2012 remains valid until 26/Mar/2017 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 Kimble

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 aforementioned 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 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

JWC ENVIRONMENTAL LLC

290 PAULARINO
COSTA MESA
CA 92626-3314
United States
Telephone: 949-833-3888
Fax: 714-242-0240
Email: jwce@jwce.com
Web: www.jwce.com

Product: Grinding Machine

Model: 30000, 30001 & 30002

Intended Service:

Marine and Offshore Applications - Garbage comminutor or grinder.

Description:

Dual -Shaft, Low Speed, High-Torque Power Waste Grinder handles Rags, Rocks, Wood, Clothing, Plastics and other Debris.

Ratings:

Please refer to the attached sheet for Rating information.

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.

Please note that the waste grinding machine has not been approved for the comminuting or grinding of food wastes as per IMO MARPOL Annex V Resolution MEPC.201 (62) Regulation 4.1.1, 5.2 and 6.1.1.

Comments:

Motor & Controller are not part of this Product Design Assessment Certificate (PDA).

Notes / Drawings / Documentation:

Identifiable Data:

Dwg. No. 30001, Rev. L - Series 30000 Muffin Monster - Assembly (3 shts);

Dwg. No. 30001-IL-LF-CD, Rev.-, Muffin Monster In-Line Configuration Model 30001 w/one Flange;

Dwg. No. 30001-SS-CG, Rev.B - Hopper, Discharge & Grinder USCG

Term of Validity:

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STANDARDS

ABS Rules:

2012 Steel Vessels Rules 1-1-4/7.7 & 1-1-Appendix 3

National:

NA

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CA 92626-3314
United States
Telephone: 949-833-3888
Fax: 714-242-0240
Email: jwce@jwce.com
Web: www.jwce.com

International:

NA

Government Authority:

NA

EUMED:

NA

Others:

None