DNV·GL

Certificate No:
RCDB000002F

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

This is to certify:

That the propulsion engines covered by the below mentioned engine family complies with the emission limits of the Recreational Craft Directive 2013/53/EU

with type designation(s)
MTU-V2000-01-RCD2

Manufacturer
MTU Friedrichshafen GmbH
FRIEDRICHSHAFEN, Germany

Has been assessed with respect to Directive 2013/53/EU of the European Parliament and of the Council according to conformity assessment procedure "Module B" described in Annex II of the Decision No 768/2008/EC of the European Parliament and of the Council, and found to comply with the applicable requirements.

Further details are given overleaf.

Issued at **Hamburg** on

DNV GL local station:
Hamburg Environmental Certification

Approval Engineer:
Volker Pawils

CE

Notified Body
No.: **0098**

for **DNV GL SE**

Dirk Masanneck
Head of Certification Body

The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or the applied standards may render this certificate invalid. The product liability rest with the manufacturer or his representative in accordance with Directive 2013/53/EU of the European Parliament and of the Council.

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Job Id: **341.3-000145-1**
Certificate No: **RCDB000002F**

Jurisdiction

DNV GL is appointed by the Central Authority of the German Federal States for Safety (ZLS) as a "Notified Body" in accordance with § 15(1) of the Product Safety Act (ProdSG) to carry out conformity assessment procedures on Recreational Crafts in the scope of ProdSG and Directive 2013/53/EU according to the administrative decision No. ZLS-Z1471-2015/1-1.

Certificate history

This is the original Certificate.

Product description

Engine Type	Number of Cylinder	Rated Power [kW]	Rated Speed [rpm]
10V2000M96L	10	1193	2450
12V2000M86	12	1268	2450
12V2000M96	12	1342	2450
12V2000M96L	12	1432	2450
16V2000M86	16	1630	2450
16V2000M96	16	1790	2450
16V2000M96L	16	1939	2450

Parent engine type : 12V2000M86
Parent engine no. : V93

Applications/Limitations

4-stroke marine diesel engine - Propeller law operated propulsion (E5)

Results of examination :

The engine family described above meets the essential requirements for exhaust emissions from propulsion engines of Recreational Craft Directive 2013/53/EU, annex I, part B regarding:
I. B. 1. Propulsion Engine identification
I. B. 2. Exhaust emission requirements
I. B. 3. Durability
I. B. 4. Owners manual

Technical documentation

NPS V ID/Proj: 341.3-000145-1, Reg. Date: 05.08.2016

Applied Standards/Tests carried out

- Exhaust emission measurement of the Parent Engine in accordance with a harmonised standard in accordance with Directive 2013/53/EU.
- Verification of the relevant technical documentation submitted by the engine manufacturer.

Terms and conditions

The following conditions may render this certificate invalid:

- Changes in the design or construction of the product
- Changes or amendments to the Directive
- Changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the Directive

Marking of product

This Certificate is concerned with the design of the product, only. In order to fully meet with the requirements of the Directive and legally affix the CE mark, the manufacturer shall have the final product and/or production assessed according to one of the procedures listed below and finally draw up an EC declaration of conformity.

Conformity assessment procedures for production as described in Annex II of the Decision No 768/2008/EC of the European Parliament and of the Council:

- Conformity to type based on internal production control (Module C)
- Conformity to type based on internal production control plus supervised product testing (Module C1)
- Conformity to type based on quality assurance of the production process (Module D)
- Conformity to type based on product quality assurance (Module E)
- Conformity to type based on product verification (Module F)

Other directives, covering other phenomena, and also having requirements related to CE marking, might also apply.