

Test Certificate for Mass Produced Diesel Engines



Certificate no.:

66394 AB
Page 1 of 2

General data MTU Friedrichshafen GmbH
Manufacturer

Plant 2	SM 259
Manufacturing plant	Approval no.
88045 Friedrichshafen, Germany	17.06.2010
Place of test	Date of test

The manufacturing plant is approved as supplier of mass produced engines for the engine type below.

Engine data	12V 4000 (P83)	526 105 173
Type	Engine serial no.	
2010	1680 kW	1800 min ⁻¹
Built	Rated power	Rated speed
24	bar	180 bar
Mean eff. pressure	Max. firing pressure	
12	170 mm	210 mm
Number of cylinders	Bore	Stroke
4-stroke	Method of operation	
water	electric starter	
Cooling	Starting device	

Application ☐ Marine ☒ other
☐ Propulsion ☒ Auxiliary ☐ Emergency

**Turbocharger /
supercharging
system**

MTU		
Manufacturer		
Type	Number	Serial No.
ZR 175	1 A - side	01459/10/E
	1 B - side	01473/10/E

Attached ancillary

units	66 & 35 m ³ /h	---	m ³ /h	36,6 m ³ /h	---	m ³ /h	---
Fresh water cooling pump	Sea water cooling pump	Lubricating oil pump	Air compressor (rel. to 1000 mbar, 20°C)	other			

Governer test $\delta r=0\%$

Permanent speed variation

Starting tests have been carried out without objections.

During the trial run the engine was coupled to: a hydraulic brake

Engine controller 140 538 385

Serial No.

Backup

engine controller 137 535 203

Serial No.

**Fuel
injection pumps**

Manufacturer	Mounting location	
	A (serial-No.)	B (serial-No.)
L'Orange	890 555	

Drawings /

documents The drawings of the above mentioned engine type have been approved by Germanischer Lloyd.

Tests and inspections

All material, component and pressure tests are covered by engine manufacturer's quality system as approved according to regulations for mass produced engines.

Test trials have been carried out in accordance with the GL-rules (see enclosure or remarks).

After test run components have been inspected in accordance with the rules (see enclosure or remarks).

Test results in accordance to the attached factory acceptance test protocol no.: 526 105 173

Additional statements

Schiffsdieseltechnik Kiel GmbH

24768 Rendsburg

D - Deutschland

Intended for

10474/10475_A2

Customer order No.

1100708

Manufacturer order No.

66394 AB

TB

06



S 10

Stamping

Remarks crankshaft:
manufacturer: Alfing
serial no.: H 632 062

This is to certify that the products described above have been tested in accordance with the rules of Germanischer Lloyd and meet the specified requirements.

Torsten Brendel
2010.07.23 09:51:46 +01'00'



Place / Date

Stamp

Signature of manufacturer

The manufacturer has been recognized according to recognition certificate No.: GL-APZ 94217-10 HH in accordance with GL-rule VI-6-2 "Guidelines for the Inspection of Mechanical and Electrotechnical Products" and kept under regular auditing by Germanischer Lloyd.



S. Müller

Sascha Müller
Augsburg
2010.07.23 10:43:18
+02'00'

Place / Date

Stamp

Signature of GL representative