

REPORT ON BOILERS.

No. 2217.

10 MAY 1944

26th April 44.

27th April 44. Port 6)

Malmö.

Malmö

Single Turret Mastanker "SVERBORG"

Malmö

Malmö

1361

22nd Oct. 1943. Last Survey

30th March. 44.

26.

8597.

Ton.

5144.

Kockums M.V.O.B. Tari 263 When built 1944
Kockums Mek. V.A.B. Engine 341 When made 1944
Kockums Mek. V.A.B. Boiler 995/96 When made 1944
Stockholms Rederi A.B. Svca Port belonging to Stockholm.

Yarn Thread tests

MULTI-STELL BOILERS-MAIN, AUXILIARY, OR DONKEY.

Messrs. Vlachovice Mimoštředl. Ironworks Corp., Vlachovice. Letter for Record

$2 \times 12.2 = 24.4 \text{ mm}^2$. Is forced draught fitted

Yes.

Coal or Oil fired

S

Oil

171.60/0" - 12 KVA

Size f. O. S. ✓

306 lbs/0" /

17.1.1944

125 & 126

Over each boiler be worked separately

Working Pressure

Yes.

5900 mm². 5710.

7697 " ✓

Pressure to which they are adjusted

173.60/0" ✓ Are they fitted with safety valves

Are they fitted with safety valves

Yes.

The boilers placed on a platform at after end of eng. room.

Is the bottom of the boiler insulated.

Yes.

3400 mm. / ext. 3400 mm. ✓ Shear plates. Material Steel. ✓ Tensile strength

D.Q.

43.9-44.7 kg/mm².

22.5 mm. ✓ The shell plates welded or flanged

No. Description of riveting-circ. seams

83 mm. ✓

T.R. Dbl. f. Diameter of rivet holes in long seams 26 mm. ✓ Pitch of rivets 171.5 "

✓

68.6 % ✓ 46.7 % ✓ 86.3 % ✓ 86.3 % ✓ 89.8 % ✓

Percentage of strength of circ. intermediate seam

✓

17 mm. ✓ 20 mm. ✓

Working pressure of shell by Rules

12.1 kg. cm².

Steel. ✓

Timor corrugated. ✓

1076 mm. ✓

Welded. ✓

12.2 kg. cm².

41.8-45.4 kg/mm². Smallest outside diameter

350x406 mm. ✓

Steel. ✓

44.5-45.3 kg/mm². Working pressure

210 mm. ✓

Dbl. nuts and washers. ✓

44.5-45.3 kg/mm². Depth and thickness of welds

13.0 kg. cm².

Steel. ✓

49.0-50.0 kg/mm². Depth and thickness of welds

210 mm. ✓

240 mm. ✓

330 mm. ✓ Working pressure

19.4 "

735 mm. ✓

15.3 kg. cm². Combustion chamber plates. Material

Steel. ✓

2-2/28 mm. ✓

17.5 mm. ✓ Back 18 mm. ✓ Top 17.5 mm. ✓ Bottom

17.5 mm. ✓

43.4-45.3 kg/mm². ✓

216x216x210 mm. ✓ Are stays fitted with nuts or riveted over

Boats. ✓

228x176x210 mm. ✓

228x210 mm. ✓ Are stays fitted with nuts or riveted over

Boats. ✓

12.0 kg. cm². ✓

Steel. ✓ Tensile strength

44.5-45.3 kg/mm². Thickness

2.2 mm. ✓

22 mm. ✓

16.6 kg. cm².

330x216 mm. ✓

Are stays fitted with nuts or riveted over

Boats. ✓

17.8 kg. cm². ✓

Steel. ✓ Tensile strength

44.5-50 kg/mm². ✓

2 3/8" x 3" ✓

6 " ✓ Are stays fitted with nuts or riveted over

142100 mm. ✓

12.6 kg. cm². ✓

Steel. ✓ Tensile strength

41-47 kg. cm².

11 9/16", 15 3/8". ✓

9 " ✓ Are stays fitted with nuts or riveted over

43848 mm. ✓

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10 MAY 1944

Working pressure by Rules	12.5 kg. cm ²	No.	Margin stays: Diameter as turned off per Diameter or threads 11/2", 1 5/8" & 1 3/4".
Working pressure by Rules	12.5 kg. cm ²	57560 mm ²	Working pressure by Rules 12.5 kg. cm ² .
Working pressure by Rules	12.5 kg. cm ²	3.25 mm.	Thickness 8"
Working pressure by Rules	12.5 kg. cm ²	8"	No. of threads per inch 9.
Working pressure by Rules	12.5 kg. cm ²	12.5 kg. cm ²	Manhole compensation: size of opening No. of rivets and diameter of rivet holes 44-26 mm
Working pressure by Rules	12.5 kg. cm ²	14040 mm ²	Steel plates: Material ✓
Outer rim thickness 190 mm.	Length of flange of manhole flanged 82 mm.	Thickness of shell	Description of longitudinal joint ✓
Outer rim thickness 190 mm.	Length of flange of manhole flanged 82 mm.	Pitch of rivets	Permissible strength of joint 100%
Outer rim thickness 190 mm.	Length of flange of manhole flanged 82 mm.	Working pressure by Rules	Thickness of rivets ✓
Outer rim thickness 190 mm.	Length of flange of manhole flanged 82 mm.	Inner radius of corners	Working pressure by Rules ✓
Outer rim thickness 190 mm.	Length of flange of manhole flanged 82 mm.	Size of doubling plate under dome	Thickness of outer plates and rivets in upper and lower connection to shell
Type of Superheater	Material of tubes	Tubes	
Type of Superheater	Manufacturers of steel forgings	Steel forgings	
Number of legs 8	Material of tubes	Steel castings	Internal diameter and thickness of tubes
External header	Tensile strength	Thickness	Can the superheater be shut off
External header	Is a safety valve fitted to every part of the superheater which can be shut off from the boiler		
External header	Are the safety valves fitted with raising gear		Working pressure as
External header	Pressure to which the safety valves are adjusted		Hydraulic test pressure
External header	Forgings and castings		Are drain cocks
External header	and after assembly in place		available on the superheater from water where necessary
All the requirements of Sections 14 to 22 inclusive for boilers have been complied with			

The foregoing is a correct description.

Kockums Mek. Verkstäder G. P.
sgd. G. Lundequist / Kurt Söderlund

Approved

10.2.44

Date of delivery progress of 2/12, 2/12, 10/12, 14/12, 27/12, 20/1, 2/2, 12/1, 17/1, 20/1, 1943.
Date of delivery progress of 1944.

Delivery date 10/2, 25/2, 10/3, 14/3, 30/3 - 1944.

Total No. of units 26.

Is this boiler a duplicate of a previous case Yes. Is the vessel's name and Report No. Mr "JULIAN", Rpt. No. 2189.

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.)

These donkey boilers have been built under special survey in accordance with the Rules and approved plans.

The materials used have been tested as per Rule and the workmanship is good.

An exhaust gas economiser, as per Cut. 8, enclosed herewith, heated by exhaust gas from tops and of the main engine cylinders, has also been installed.

The economiser is fitted with a double 75 mm. safety valve which has been adjusted to the safe working pressure.

Because the economiser is working with a working pressure of 7 kg. cm² only, the same can not be used when the donkey boiler pressure is above 7 kg. cm².

Mr. T. F. 6
R. 332:50 When applied for 27th April 44.

Testing Expenses (if any) £

When received.

19

Ahrendsen, A. Böring
Lloyd's Surveyor to Lloyd's Register of Shipping

Complainant's Name

Signed

FRI. 14 JUL 1944
see summary
on LRpt.

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