

REPORT ON WATER TUBE BOILERS.

No. 16920

Received at London Office

14 JUL 1926

6 AUG 1926

Writing Report 30th June 1926 When handed in at Local Office

19

Port of HAMBURG

in Survey held at Kiel Date, First Survey 31st April Last Survey 21st June 1926

Bk. on the Steel Twin S.S. M.S. "ARDOR" - YARD No. 206 Number of Visits 9. Gross Tons Net

being Built at MUGGIANO By whom built ANSALDO SAN GIORGIO When built 1926

es made at By whom made When made

s made at Kiel By whom made FRIED. KRUPP-GERMANIAWERKE When made 1926

ered Horse Power Owners Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Henschel & Sohn - Haltingen.

for Record S. Date of Approval of plan 16/2/26 Number and Description or Type

Boilers 2 Water Tube Donkey Boilers Working Pressure 200 lb. Tested by Hydraulic Pressure to 400 lb. Date of Test 18/6-21/6/26

Certificate 431-432 Can each boiler be worked separately. Total Heating Surface of Boilers 240 sq. m.

ced draught fitted. Area of fire grate (coal) in each Boiler oil fired. Total grate area of boilers in vessel including

and Auxiliary. No. and type of burners (oil) in each boiler 2 Safe burners. No. and description of safety valves on

boiler 2 Spring loaded. Area of each valve 38.48 sq. cm. Pressure to which they are adjusted

key fitted with easing gear. In case of donkey boilers state whether steam from main boilers can enter the donkey boiler. No.

est distance between boilers or uptakes and bunkers or woodwork. Height of Boiler 4596 mm. Width and Length 2900-4720 mm.

Drums:—Number in each boiler 1. Inside diameter 1300 mm. Material of plates Steel. Thickness 21 mm.

of Tensile Strength 44.8-50 kg/cm². Are drum shell plates welded or flanged. Description of riveting:—

seams 4 double long. seams Double butt, double. Diameter of rivet holes in long. seams 28 mm. Pitch of Rivets 90 mm.

of plate or width of butt straps 268 mm. Thickness of straps 16 mm. Percentage strength of long. joint:—Plate 69.9% Rivet 95%

eter of tube holes in drum 95 mm. Pitch of tube holes 185 mm. Percentage strength of shell in way of tubes 48.6%

drum has a flat side state method of staying. Depth and thickness of girders at centre

ted. Distance apart. Number and pitch of stays in each. Working pressure

les 14.18 kg/cm². Steam Drum Heads or Ends:—Material Steel. Thickness 25 mm - 28 mm. Radius or how stayed 1300 mm

of Manhole or Handhole 300 x 400 mm. Water Drums:—Number in each boiler. Inside Diameter

ial of plates. Thickness. Range of tensile strength. Are drum shell plates welded

nged. Description of riveting:—Cir. seams long. seams. Diameter of Rivet Holes in

seams. Pitch of rivets. Lap of plates or width of butt straps. Thickness of straps

ntage strength of long. joint:—Plate Rivet. Diameter of tube holes in drum. Pitch of tube holes

ntage strength of drum shell in way of tubes. Water Drum Heads or Ends:—Material. Thickness

s or how stayed. Size of manhole or handhole. Headers or Sections:—Number 2

ial Steel. Thickness of plates 19 mm. Tested by Hydraulic Pressure to 400 lb. Material of Stays Steel

at smallest part 29 mm. Area supported by each stay 224 sq. cm. Working Pressure by Rules 17.75 kg/cm². Tubes:—Diameter 95 mm. External

ness 5.5 mm & 4.5 mm. Number 161. Steam Dome or Collector:—Description of Joint to Shell

ntage strength of Joint. Diameter. Thickness of shell plates. Material

ription of longitudinal joint. Diameter of Rivet Holes. Pitch of Rivets. Working Pressure of shell

les. Crown or End Plates:—Material. Thickness. How stayed

REHEATER. Type. Date of Approval of Plan. Tested by Hydraulic Pressure to

of Test. Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler

eter of Safety Valve. Pressure to which each is adjusted. Is easing gear fitted

rain cock or valve fitted at lowest point of superheater. Number, diameter, and thickness of tubes

re Gear. Tubes. Gaskets or joints:—Manhole. Handhole. Handhole plates

MARK ON BOILERS: No. 431 - 432 432

440YD'S TEST 400 LBS. 18.6.26. 27.6.26.

The foregoing is a correct description, FRIED. KRUPP GERMANIAWERKE Manufacturer.

Is the approved plan of boiler forwarded herewith. Yes

Total No. of visits 9.

During progress of work in shops - - -

During erection on board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These two Water Tube Donkey Boilers have been

under Special Survey in accordance with the approved plan, the Lordan's letter E. 16.2.26 and otherwise in con-

with the requirements of the Rules. The material and workmanship are of a good quality and where tests for work-

ing pressure were found light & satisfactory and in my opinion eligible for notification "V.B.F.W.T."-26, subject

examination under steam & adjustment of safety valves after having been satisfactorily fitted on board.

Survey Fee ... £ 8 : 8 : - When applied for, 12th July 1926

Travelling Expenses (if any) £ 3 : - : - When received, 17.7.1926

Committee's Minute TUES. 23 AUG 1927

Signed See Gen. Report No 9973

FRI. 30 SEP 1927
TUES. 8 NOV 1927

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