

REPORT ON WATER TUBE BOILERS.

No. 16818

13 MAY 1926

Received at London Office

Writing Report 3rd MAY 1926 When handed in at Local Office

19 Port of HAMBURG

Survey held at KIEL Date, First Survey 1st September 1925 Last Survey 20th April 1926

on the Steel Twin Sc. V.S. "THELIA" Number of Visits 17 Tons Gross 8745 Net 5026

Built at KIEL By whom built HOWALDTSWERKE When built 1926

made at WINTERTHUR By whom made GEB. SULZER When made 1926

made at KIEL By whom made HOWALDTSWERKE When made 1926

red Horse Power 776 Owners BALTA AMERICA PETROL. TRADING CO. LTD. Port belonging to DANZIG.

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel Phosvis - Hoerde. ✓

for Record 5 Date of Approval of plan 10. 10. 24. Number and Description or Type

Boilers 2 Water Tube Donkey Boilers Working Pressure 14 kg/cm² (200 lb) Tested by Hydraulic Pressure to 28 kg/cm² (400 lb) Date of Test 8. 9. 26.

Certificate 44445 Can each boiler be worked separately yes ✓ Total Heating Surface of Boilers 240 sq. m. ✓

forced draught fitted yes ✓ 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 Dabco burners ✓ No and description of safety valves on

boiler 2 Spring loaded ✓ Area of each valve 70 cm² ✓ Pressure to which they are adjusted 14 kg/cm² (200 lb) ✓

they fitted with easing gear yes ✓ In case of donkey boilers state whether steam from main boilers can enter the donkey boiler no. ✓

least distance between boilers or uptakes and bunkers on woodwork 1900 mm ✓ Height of Boiler 4300 mm ✓ Width and Length 2900-4600 mm ✓

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

of Tensile Strength 44-51 kg/cm² ✓ Are drum shell plates welded or flanged flanged ✓ Description of riveting:—

seams sp. double ✓ long. seams 2 B. double riv. ✓ Diameter of rivet holes in long. seams 26 mm ✓ Pitch of Rivets 93 mm ✓

of plate or width of butt straps 264 mm ✓ Thickness of straps 16 mm ✓ Percentage strength of long. joint:—Plate 72% ✓ Rivet 83.5% ✓

diameter 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

stayed) ✓ Distance apart ✓ Number and pitch of stays in each ✓ Working pressure

plates 14.25 kg/cm² ✓ Steam Drum Heads or Ends:—Material Steel ✓ Thickness 22 mm - 25 mm ✓ Radius or how stayed 1300 mm ✓

of Manhole or Handhole 300x400 mm ✓ Water Drums:—Number in each boiler Inside Diameter

Material of plates Thickness Range of tensile strength Are drum shell plates welded

flanged. 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

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

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

Radius or how stayed Size of manhole or handhole Headers or Sections:—Number 2 ✓

Material Steel ✓ Thickness 22 mm - 25 mm ✓ Tested by Hydraulic Pressure to 28 kg/cm² (400 lb) Material of Stays Steel ✓

Area supported by each stay 256 sq. cm. Working Pressure by Rules 26.5 kg/cm² ✓ Tubes:—Diameter 95 mm ✓

Thickness 5.5 mm - 4.5 mm ✓ Number 139 mm ✓ Steam Dome or Collector:—Description of Joint to Shell

Percentage strength of Joint Diameter Thickness of shell plates Material

Description of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shell

Rules Crown or End Plates:—Material Thickness How stayed

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

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

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

Is a drain cock or valve fitted at lowest point of superheater Number, diameter, and thickness of tubes

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

The foregoing is a correct description, HOWALDTSWERKE Manufacturer.

Dates During progress of work in shops 1/9-11/9-2/10-9/10-2/11-17/11-4/12-23/12-29/12/25-4/1-8/1/26. Is the approved plan of boiler forwarded herewith Yes Dep 16532.

Survey while building During erection on board vessel 5/2-18/2-2/3-16/3-3/4-20/4/26 Total No. of visits 17

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

Material & workmanship of these boilers is of good quality. The materials used in the construction are made at works recognized by the Committee and fitted in accordance with the requirements of the Rules. These boilers having been built under Special Survey in conformity with the approved plan, the Secretaries believe and otherwise in accordance with the requirements of the Rules are eligible in my opinion for

Survey Fee £ 8. : 8. : } When applied for, 3rd May 1926 record 'N.D.B.(N.S.)-26'

Travelling Expenses (if any) £ : : } When received, 7. 6. 1926

Friedrich Witt Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute Assigned See Rpt attached

TUES. 18 MAY 1926

W220-0064

