

REPORT ON WATER TUBE BOILERS

No. 23318^d

26 NOV 1934

Received at London Office

Date of writing Report 22.11.1934 When handed in at Local Office 19 Port of Rotterdam

No. in Survey held at Flushing Date, First Survey 12.7.34 Last Survey 10-8-1934
 Reg. Bk. Waste Heat Watertube Boiler "M. BOSCHFONTEIN" (Number of Visits 5)
 Master Waste Heat Built at Rotterdam By whom built P. Smit Jr When built 1928
 Engines made at Flushing By whom made Hon Mr. "De Schelde" When made 1934
 Boilers made at Rotterdam By whom made P. Smit Jr When made 1928
 Registered Horse Power _____ Owners Vereniging de Nederlandsche Scheepvaart belonging to Gravenhage

WATER TUBE BOILERS - MAIN, AUXILIARY, OR DONKEY. - Manufacturers of Steel Deutsche Rohrenwerke A.G

(Letter for Record 9) Date of Approval of plan 18.6.34 Number and Description or Type of Boilers One Schelde type Working Pressure 225 lb. Tested by Hydraulic Pressure to 390 lb. Date of Test 20.8.34

No. of Certificate 963 Can each boiler be worked separately ✓ Total Heating Surface of Boilers 5210 sq ft

Is forced draught fitted ✓ Area of fire grate (coal) in each Boiler ✓ Total grate area of boilers in vessel including Main and Auxiliary ✓

No. and type of burners (oil) in each boiler ✓ No. and description of safety valves on each boiler 2 spring loaded Area of each valve 1.48 sq in Pressure to which they are adjusted 225 lb.

Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler ✓

Smallest distance between boilers or uptakes and bunkers or woodwork over 24" Height of Boiler 52.40 m Width and Length _____

Steam Drums: - Number in each boiler One Inside diameter 1090 Material of plates S. M. Steel Thickness 30 mm

Range of Tensile Strength 40-45 kg/cm² Are drum shell plates welded or flanged Welded Description of riveting: -

Cir. seams lap 2 x riv long. seams Welded Diameter of rivet holes in long. seams ✓ Pitch of Rivets ✓

Lap of plate or width of butt straps ✓ Thickness of straps ✓ Percentage strength of long. joint: - Plate ✓ Rivet ✓

Diameter of tube holes in drum 25.4 mm Pitch of tube holes 38 mm Percentage strength of shell in way of tubes 33%

If Drum has a flat side state method of staying ✓ Depth and thickness of girders at centre (if fitted) ✓

Distance apart ✓ Number and pitch of stays in each ✓ Working pressure by rules 225 lb.

Steam Drum Heads or Ends: - Material S. M. Steel Thickness 30 mm Radius or how stayed 1090 mm

Size of Manhole or Handhole 300 x 400 mm Water Drums: - Number in each boiler One Inside Diameter 1090 mm

Material of plates S. M. Steel Thickness 30 mm Range of tensile strength 40-45 kg/cm² Are drum shell plates welded or flanged Welded

Description of riveting: - Cir. seams lap 2 x riv long. seams Welded Diameter of Rivet Holes in long. 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 25.4 mm Pitch of tube holes 38 mm

Percentage strength of drum shell in way of tubes 33% Water Drum Heads or Ends: - Material S. M. Steel Thickness 24 mm

Radius or how stayed 1090 mm Size of manhole or handhole 300 x 400 mm Headers or Sections: - Number ✓

Material ✓ Thickness ✓ Tested by Hydraulic Pressure to ✓ Material of Stays ✓

Area at smallest part ✓ Area supported by each stay ✓ Working Pressure by Rules ✓ Tubes: - Diameter 25.4 mm

Thickness 2.5 mm Number 1074 Two original main boiler valves 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 by Rules ✓

Crown or End Plates: - Material ✓ Thickness ✓ How stayed ✓

UPERHEATER. 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 _____

Spare Gear. Tubes 20 Gaskets or joints: - Manhole ✓ Handhole ✓ Handhole plates ✓

The foregoing is a correct description,

P. Proc. N.V. KON. MY. "DE SCHILDE" Manufacturer.

Dates of Survey: During progress of work in shops 12/9, 8/16, 20/18 Is the approved plan of boiler forwarded herewith Returned
 while building: During erection on board vessel 1/18, 18/18 Total No. of visits 5

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been made in accordance with the Society's Rules, approved plans and Secretary's letters, material tested as required and workmanship good.

Survey Fee ... £ 256.00 When applied for, 19
 Travelling Expenses (if any) £ When received, 12.12.1934

M. J. Ochoa
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 27 NOV 1934
 Assigned _____

