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Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

No. 22856

JUL 28 1939

Received at London Office

Date of writing Report 19 When handed in at Local Office 27/7 1939 Port of Antwerp

No. in Survey held at Grace, Berleur & Hoboken. Date, First Survey 28-10-38. Last Survey 11-7-1939

Reg. Bk. on the Twin S.M.V. "Baudouinville" (Number of Visits 16.) Tons Gross Net

Master Built at Hoboken By whom built H.A.M. J. Cockerill When built 1939-7

Engines made at Seraing By whom made H.A.M. J. Cockerill When made 1939

Boilers made at Grace-Berleur By whom made Chaudronniers A.F. Smulders When made 1939

Registered Horse Power Owners P. Marit, Belg (Lloyd Royal) S.A. Port belonging to Antwerp

WATER TUBE BOILERS MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel Fab. de Ft. de Charbon + V. a. tubs de la Meuse.

(Letter for Record) Date of Approval of plan 22-6-38. Number and Description or Type of Boilers 2 oil fired, waste heat, and oil. Working Pressure 6 kg/cm² Tested by Hydraulic Pressure to 12 kg. Date of Test 13/12/38

No. of Certificate 1351. Can each boiler be worked separately yes. Total Heating Surface of Boilers 280 m². Is forced draught fitted no. Area of fire grate (coal) in each Boiler

Main and Auxiliary. No. and type of burners (oil) in each boiler 1-A.G. Balcke. No and description of safety valves on each boiler 1 single spring loaded on each oil fired boiler = 12.5 cm². Pressure to which they are adjusted = 9 kg

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 on Eng. room platform

Steam Drums: Number in each boiler one in total. Inside diameter 1200 mm. Material of plates J.M. steel. Thickness 10 mm. Range of Tensile Strength 44-55 kg

Cir. seams double riveted long. seams double riveted butt. Diameter of rivet holes in long. seams 20 mm. Pitch of Rivets 72 mm long seams, 62.8 mm long seams. Lap of plate or width of butt straps 196%. Thickness of straps 13 mm. Percentage strength of long. joint: Plate 98. Rivet 187

Diameter of tube holes in drum. Pitch of tube holes. Percentage strength of shell in way of tubes. 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.

Steam Drum Heads or Ends: Material. Thickness. Radius or how stayed. Size of Manhole or Handhole. Water Drums: Number in each boiler. Inside Diameter. Material of plates. Thickness. Range of tensile strength. Are drum shell plates welded or flanged. Description of riveting: Cir. seams. long. seams. 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. Pitch of tube holes. Percentage strength of drum shell in way of tubes. Water Drum Heads or Ends: Material S.M. steel. Thickness 10 mm. Size of manhole or handhole 300x400 mm. Headers or Sections: Number 2. Material of Stays. Area at smallest part. Area supported by each stay. Working Pressure by Rules. Tubes: Diameter 20 mm. Thickness 2.5 mm - 3 mm. Number. 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.

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.

CHAUDRONNIERS A.F. SMULDERS. Gaskets or joints: Manhole. Handhole. Handhole plates. (SOCIÉTÉ ANONYME) L'Administrateur-Gérant. The foregoing is a correct description, Manufacturer.

Dates of Survey while building. During progress of work in shops. During erection on board vessel. 28-31, 22-23, 13, 10-30, 11-38, 12-38, 5-15, 12-23-26, 6-9-16, 8-12, 11, 12-28, 1-29, 2-39, 6-39, 7-39. Total No. of visits 16.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers of this vessel have been constructed under supervision, as per approved plans and the materials tested by the Society's Surveyors. The materials and workmanship are good. The boilers have been tested by hyd. pressure: viz. the steam and water drum to 12 kg. The two oil fired boilers and the two exhaust gas heated boilers to 17 kg and found steam tight. The boilers have been examined under steam, and accumulations noted, made, also easing gear tried. S.V. adjusted, steam and exhaust gas heated boiler to 17 kg. Water drum to 6 kg. The two oil fired & the two exhaust gas heated boiler to 12 kg.

Survey Fee ... 2625. Travelling Expenses (if any) 560. When applied for. When received, 21-8. 1939-8/9. J. L. Rabaeij.

Committee's Minute. Assigned. TUE 1 AUG 1939. See KE machy rpt.

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation