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REPORT ON BOILERS.

No. F.E.M.084

3 NOV 1964

Date of writing Report 26-9-1964 When handed in at Local Office 26-9-1964 Port of Gdańsk
 Received at London Office
 Survey held at Gdańsk and Szczecin Date, First Survey 2nd Dec. 1963 Last Survey 19
 No. in Reg. Book. M.V. "JOHANNES LATUHARHARY" (Number of Visits) Tons { Gross Net
 Built at Szczecin- Poland By whom built Stocznia Szczecińska Yard No. B454/6 When built 1964
 Engines made at Poznań By whom made H.Cegielski-Sulzer-Poznań Engine No. When made
 Boilers made at Gdańsk By whom made Stocznia Gdańska Boiler No. 2144 When made 11-63
 Owners Indonesian Government Port belonging to Djakarta

VERTICAL BOILER.

Made at Gdańsk By whom made Stocznia Gdańska Boiler No. 2144 When made 11-63 ER PTFM P.S. Aft
 Manufacturers of Steel Huta Batory; Huta Kościuszko; Huta Jedność - POLAND Where fixed
 Total Heating Surface of each Boiler 42,5 m.sq. Is forced draught fitted. yes Coal or Oil fired OIL fired
 No. and Description of Boilers One, vertical "Haystack" type Polish Design VX2 Working Pressure 7kgs/cm²
 Tested by hydraulic pressure to 14 kgs/cm² Date of test 30th November 1963 No. of Certificate GDK 103
 Area of fire grate in each Boiler - No. and description of safety valves to each boiler One-Twin-improved high lift type
 Area of each set of valves per boiler { per Rule 1605mm² as fitted 3920mm² Pressure to which they are adjusted 7kgs/cm² Are they fitted with easing gear Yes
 State whether steam from main boilers can enter the donkey boiler No Main Boilers
 None adjacent Is oil fuel carried in the double bottom under boiler yes Smallest distance between boiler or uptake and bunkers
 850 mms Is the base of the boiler insulated no Largest internal dia. of boiler 1776mm Height 3250mm
 Shell plates: Material S.M. Steel Tensile strength 41-47kgs/mm² Thickness 12mms
 Are the shell plates welded or flanged welded If fusion welded, state name of welding firm Stocznia Gdańska- Gdańsk
 Have all the requirements of the Rules for Class I vessels been complied with yes Description of riveting: circ. seams { end Lower S.R.LAP inter -
 welded Dia. of rivet holes in { circ. seams 20mm Pitch of rivets 51,6mm Thickness of butt straps { outer - inner -
 Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished Part Spherical Material SM Steel Tensile strength 41-47kgs/mm² Thickness 20mm
 radius 1545 mm Description of Furnace: Plain, spherical, or dished crown Dished Crown Material SM STEEL
 Tensile strength 41-47kgs/mm² Thickness 14mm External diameter { top 1287mm Length as per Rule 1100mm bottom 1776mm
 Pitch of support stays circumferentially None and vertically None Are stays fitted with nuts or riveted over None
 Diameter of stays over thread None Radius of spherical or dished furnace crown 1120mm
 Thickness of Ogee Ring 14mm Diameter as per Rule { D - d -
 Combustion Chamber: Material - Tensile strength - Thickness of top plate -
 radius if dished - Thickness of back plate - Diameter if circular -
 Length as per Rule - Pitch of stays -
 Are stays fitted with nuts or riveted over - Diameter of stays over thread -
 Tube Plates: Material { front Upper SM Steel Tensile strength 41-47kgs/mm² Thickness { 28mm Mean pitch of stay tubes in nests 60x55mm back SM Steel Lower 41-47kgs/mm² 28mm TOP 45mm Bottom 45mm
 comprising shell, dia. as per Rule { front - Pitch in outer vertical rows 55mm Dia. of tube holes { stay 45mm BACK 45mm plain 45mm
 each alternate tube in outer vertical rows a stay tube All outer row tubes are stay tubes
 Top tube plate
 Girders to Combustion Chamber Top: Material SM STEEL Tensile strength 41-47 kgs/mm²
 Length and thickness of girder at center 14mm x 130mm x 257 mm Length as per Rule -
 14mm x 130mm x 500mm
 distance apart - No. and pitch of stays in each One- Adjacent to uptake opening in lower tube plate.

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Crown Stays: Material - Tensile strength - Diameter { at body of stay, - or over threads. - }
 No. of threads per inch - Screw Stays: Material - Tensile strength -
 Diameter { at turned off part, - or over threads. - } No. of threads per inch - Are the stays drilled at the outer ends -
 Tubes: Material Seamless Steel External diameter { plain 44,5mm Thickness 4 mm stay 44,5mm 6 mm }
 No. of threads per inch None - Tubes E.W. Pitch of tubes 60 x 55mm
 Manhole Compensation: Size of opening in shell plate Upper 305x405mm lower Section of compensating ring 12 x 90mm No. of rivets and diameter
 of rivet holes None Outer row rivet pitch at ends None Depth of flange if manhole flanged 80 x 20mm
 Uptake: External diameter 444 mm Thickness of uptake plate 12mm
 Cross Tubes: No. none External diameters { - Thickness of plates - }

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with yes

The foregoing is a correct description,
 Zakład Budowy Silników
 Spół. z o.o. - Przem. Produkcyj
 7.1.1965
 M. Szepietowski
 Manufacturer.

Dates of Survey while building { During progress of work in shops - - 26.9; 8, 14.10; 23.11; 2.12; 1963 Is the approved plan of boiler forwarded herewith (If not state date of approval.)
 { During erection on board vessel - - - Total No. of visits 2 }

Is this Boiler a duplicate of a previous case yes If so, state Vessel's name and Report No. FEMO71 "HADJI AGUS SALIM"

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

The vertical "Haystack" type oil fuel Auxiliary boiler described herein has been constructed under Special Survey, and in accordance with the Rules, approved plans and Secretary's letters.
 The materials used and the workmanship are of good quality, and the boiler has been efficiently installed on board the m.v. "JOHANNES LATUHARHARY".
 The safety valves have been adjusted to blow at 7 kgs/cm².
 A steam accumulation test has been carried out with satisfactory results.
 In our opinion the boiler is eligible to be classed in the Register Book with the main machinery.
 Compression rings distances:- Starboard 14,5 mm Port 15,8mm

Survey Fee ... £ 32 -10% = £ 28.15.0
 10.12.64 Travelling Expenses (if any) £ 21 1680.-
 When applied for 19
 When received 19

Middle
 Engineer Surveyor to Lloyd's Register of Shipping.

Date FRIDAY 8 JAN 1965
 Committee's Minute See Rpt. 1.