

# 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  
 Survey held at Gdańsk and Szczecin  
 No. in Reg. Book. M.V. "JOHANNES LATUHARHARY"  
 Date, First Survey 2nd Dec. 1963 Last Survey 19  
 on the (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  
 Manufacturers of Steel Huta Batory; Huta Kościuszko; Huta Jedność - POLAND P.S. Aft  
 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/cm<sup>2</sup>  
 Tested by hydraulic pressure to 14 kgs/cm<sup>2</sup> 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 1605mm<sup>2</sup> as fitted 3920mm<sup>2</sup> Pressure to which they are adjusted 7kgs/cm<sup>2</sup> Are they fitted with easing gear Yes  
 State whether steam from main boilers can enter the donkey boiler No Main Boilers  
 or woodwork None adjacent Smallest distance between boiler or uptake and bunkers  
 850 mms Is oil fuel carried in the double bottom under boiler yes Smallest distance between base of boiler and tank top plating  
 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/mm<sup>2</sup> 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  
 welded Dia. of rivet holes in { circ. seams 20mm Pitch of rivets 51,6mm Thickness of butt straps { outer -  
 long. seams - inner -  
 Shell Crown: Whether complete hemisphere, dished partial spherical, or flat Dished Part Spherical Material SM Steel Tensile strength 41-47kgs/mm<sup>2</sup> Thickness 20mm  
 radius 1545 mm Description of Furnace: Plain, spherical, or dished crown Dished Crown Material SM STEEL  
 Tensile strength 41-47kgs/mm<sup>2</sup> 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  
 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 -  
 Upper SM Steel Diameter of stays over thread -  
 Tube Plates: Material { front SM Steel Tensile strength 41-47kgs/mm<sup>2</sup> Thickness { 28mm Mean pitch of stay tubes in nests 60x55mm  
 back SM Steel 28mm  
 Lower - 55mm TOP 45mm Bottom 45mm  
 comprising shell, dia. as per Rule { front - Pitch in outer vertical rows { - Dia. of tube holes { stay 45mm BACK 45mm  
 back - plain 45mm  
 each alternate tube in outer vertical rows a stay tube All outer row tubes are stay tubes  
 Top tube plate  
 Orders to Combustion Chamber Top: Material SM STEEL Tensile strength 41-47 kgs/mm<sup>2</sup>  
 Length and thickness of girder at centre 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 4 mm stay 44,5mm Thickness { 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 329x429mm 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. ul. Przemysł. 100  
80-009 Gdańsk

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

Is this Boiler a duplicate of a previous case. yes If so, state Vessel's name and Report No. FEM071 "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/cm<sup>2</sup>.

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  
Traveling Expenses (if any) £ 21 1680.-  
When applied for 19  
When received 19

FRIDAY 8 JAN 1965

Date

Committee's Minute See Rpt. 1.

Middle

Engineer Surveyor to Lloyd's Register of Shipping.



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