

REPORT ON WATER TUBE BOILERS.

No. 6996

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12 FEB 1959

of writing Report 7.2. 19.59 When handed in at Local Office 19 Port of Helsingfors
 in Survey held at Helsingfors Date, First Survey 21.8.58 Last Survey 29.1. 19 59.
 Book. for the diesel electric icebreaker "MOSKVA" (Number of Visits 6) Gross Tons
 at Helsingfors, Finland By whom built Wärtsilä-koncernen A/B Yard No. 365 When built 1959
 nes made at By whom made Engine No. When made
 rs made at Helsingfors, Finland By whom made (Wärtsilä-koncernen A/B Boiler No. 2796 When made 1959
 inal Horse Power Owners Port belonging to

ATER TUBE BOILERS ~~MAIN~~ AUXILIARY, OR ~~DONKEY~~ —Manufacturers of Steel Phoenix = Rheinrohr A.G. etc.
 e of Approval of plan 21.10.1957, Drawing No. 1M36104/A No. and Description or Type
 boilers B&W Marine Water Tube Boiler Working Pressure 10 kg/cm² Tested by Hydraulic Pressure to 18.5 kg/cm² Date of Test 29.1.1959
 of Certificate 11 Can each boiler be worked separately yes Total Heating Surface of Boilers 170 m²
 orced draught fitted No Area of Fire Grate (coal) in each Boiler oil fired
 and type of burners (oil) in each boiler one No. and description of safety valves on
 h boiler one, 2 x 70 double spring loaded Area of each set of valves per boiler { per rule
 as fitted 77 cm² Pressure to which they
 adjusted 10 kg/cm² Are they fitted with easing gear yes In case of donkey boilers state whether steam from main boilers can enter
 donkey boiler No main Blr Smallest distance between boilers or uptakes and bunkers or woodwork Height of boiler
 dth and length Steam Drums:—Number in each boiler one Inside diameter 914 mm
 ickness of plates 18 mm Range of tensile strength 41-47 kg/mm² Are drum shell plates welded
 flanged welded If fusion welded, state name of welding firm Wärtsilä-koncernen A/B Have all the requirements of the Rules
 Class I vessels been complied with yes Description of riveting:—Circ. seams long. seams
 umeter of rivet holes in long. seams Pitch of rivets Thickness of straps mm Percentage strength of
 g. joint:—Plate Rivet Diameter of tube holes in drum 25.4/38.4 Pitch of tube holes 38.8/59 mm
 rcentage strength of shell in way of tubes 34% Steam Drum Heads or Ends:—Range of tensile strength 41-47 kg/mm²
 ickness of plates 16 mm Radius or how stayed r = 95 mm Size of manhole or handhole 300 x 400 mm Water Drums:—Number
 each boiler one Inside diameter 328 mm Thickness of plates 20 mm Range of tensile strength 41-47 kg/mm² Are drum shell plates
 lded or flanged seamless If fusion welded, state name of welding firm Have all the requirements of the Rules
 Class I vessels been complied with yes Description of riveting:—Circ. seams long. seams
 ameter of rivet holes in long. seams Pitch of rivets Thickness of straps mm Percentage strength of
 rcentage strength of long. joint:—Plate Rivet Diameter of tube holes in drum 25.4/38.4 mm Pitch of tube holes 38.8/59 mm
 rcentage strength of drum shell in way of tubes Water Drum Heads or Ends:—Range of tensile strength 41-47 kg/mm²
 ickness of plates 13 mm Radius or how stayed r = 65, R = 325 mm Size of manhole or handhole 105/121 mm
 eaders or Sections:—Number Material Thickness Tested by hydraulic pressure to
 ubes:—Diameter inside 19/31 mm Thickness 3/3.5 mm Number 576 and 95 Steam Dome or Collector:—Description of
 int to shell Inside diameter Thickness of shell plates Range of tensile
 length Description of longitudinal joint If fusion welded, state name of welding
 m Have all the requirements for the Rules for Class I vessels been complied with Diameter of rivet holes
 tch of rivets Thickness of straps Percentage strength of long. joint plate rivet
 own or End Plates:—Range of tensile strength Thickness Radius or how stayed
 UPERHEATER, Drums or Headers:—Number in each boiler No superheater Inside diameter
 ickness Material Range of tensile strength Are drum shell plates welded
 flanged If fusion welded, state name of welding firm Have all the requirements of the Rules
 or Class I vessels been complied with Description of riveting:—Circ. seams long. seams
 ameter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of
 ng. joint:—Plate Rivet Diameter of tube holes in drum Pitch of tube holes Percentage strength of
 rum shell in way of tubes Drum Heads or Ends:—Thickness Range of tensile strength
 adius or how stayed Size of manhole or handhole Number, diameter, and thickness of tubes
 Tested by hydraulic pressure to Date of test Is a safety valve fitted to each section of the superheater which
 an be shut off from the boiler No. and description of safety valves Area of each set
 f valves Pressure to which they are adjusted Is easing gear fitted
 pare Gear. Has the spare gear required by the Rules been supplied

The foregoing is a correct description,

Wärtsilä-koncernen A/B, Maskin och Bro

Manufacturer.

Dates During progress of work in shops - 21.8.58 - 29.1.59 Is the approved plan of boiler forwarded herewith no
 while 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. 6991 "Moskva"

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. Material and workmanship found good. Boiler
 found fit for class subject to steam trial being carried out with satisfactory result.

Survey Fee ... Fmk. 27.000:- : When applied for 19

Travelling Expenses (if any) £ - : When received 19

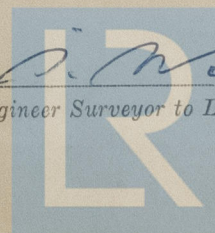
Fee will be applied for upon the return of the attached certificate No. 11.

Date FRIDAY 14 OCT 1960

Committee's
Minute

See Rpt. 1.

Engineer Surveyor to Lloyd's Register of Shipping.



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