

REPORT ON WATER TUBE BOILERS.

No. 21210

Received at London Office

23 NOV 1964

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

No. in Survey held at Elsinore and Nakskov Date, First Survey 11.12.1963 Last Survey 2.10. 19 64

Reg. Book. 41965 on the m.s. "BIJSK" (Number of Visits 14) Gross 10684

Built at Nakskov By whom built Nakskov Skibsværft A/S Yard No. 172 Tons Net 5950

Engines made at Copenhagen By whom made A/S Burmeister & Wain Engine No. 7211 When built 10-1964

Boilers made at Elsinore By whom made Maskinbyggeri A/S Boiler No. 1304 When made 2-1964

HS for Register Book 85 m² Owners U.S.S.R. Port belonging to Odessa

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

Uddeholm A/B. Stenfallsverken
Eschweiler-Aue
Eschweiler-Bergwerksverein

Date of Approval of plan 28th October, 1963 - TUBES:- ESCHWEILER, BERGWERKSVEREIN, No. and Description or Type of Boilers 1 off exhaust gas fired La Mont Working Pressure 10kg/cm² Tested by Hydraulic Pressure to 18.5kg/cm² Date of Test 3.2.64

No. of Certificate 1103 Can each boiler be worked separately - Total Heating Surface of Boilers 85 m² Superheaters None

Half Economisers None Is forced draught fitted No Area of Fire Grate (coal) in each Boiler

No. and type of burners (oil) in each boiler exhaust gas fired No. and description of safety valves on each boiler 1 off directly springloaded 40mm diam. Area of each set of valves per rule - Pressure to which they are adjusted 10 kg/cm² Are they fitted with easing gear yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler No main boilers fitted in funnel Height of boiler 1649 mm

Width and length inside Diam. 1970 mm Steam Drums:- Number in each boiler 1 - please see maskinbyggeri Cpn. cert. dated 22/4-64

Thickness of plates Range of tensile strength Are drum shell plates welded or flanged If fusion welded, state name of welding firm Have all the requirements of the Rules for Class I vessels been complied with Description of riveting:- Circ. seams long. seams

Diameter of rivet holes in long. seams Pitch of rivets Thickness of straps Percentage strength of long. joint:- Plate Rivet Diameter of tube holes in drum Pitch of tube holes

Percentage strength of shell in way of tubes Steam Drum Heads or Ends:- Range of tensile strength

Thickness of plates Radius or how stayed Size of manhole or handhole Water Drums:- Number in each boiler Inside diameter Thickness of plates Range of tensile strength Are drum shell plates welded or flanged If fusion welded, state name of welding firm Have all the requirements of the Rules for Class I vessels been complied with Description of riveting:- Circ. seams long. seams

Diameter of rivet holes in long. seams Pitch of rivets 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:- Range of tensile strength

Thickness of plates Radius or how stayed Size of manhole or handhole

Headers or Sections:- Number 1 off Material SM steel Thickness 8 mm Tested by hydraulic pressure to 20 kg/cm²

Tubes:- Diameter inside 26 mm Thickness 3 mm Number 9 off double coils Steam Dome or Collector:- Description of joint to shell Inside diameter Thickness of shell plates Range of tensile strength Description of longitudinal joint If fusion welded, state name of welding firm Have all the requirements for the Rules for Class I vessels been complied with Diameter of rivet holes

Pitch of rivets Thickness of straps Percentage strength of long. joint plate rivet

Crown or End Plates:- Range of tensile strength Thickness Radius or how stayed

SUPERHEATER, Drums or Headers:- Number in each boiler Inside diameter

Thickness Material Range of tensile strength Are drum shell plates welded or flanged If fusion welded, state name of welding firm Have all the requirements of the Rules for Class I vessels been complied with Description of riveting:- Circ. seams long. seams

Diameter of rivet holes in long. seams Pitch of rivets 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

Drum Heads or Ends:- Thickness Range of tensile strength

Radius 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 can be shut off from the boiler No. and description of safety valves Area of each set of valves Pressure to which they are adjusted Is easing gear fitted

Spare Gear. Has the spare gear required by the Rules been supplied

16 - III - 1964

HELSENGOR SKIBSVÆRFT OG MASKINBYGGERI
AKTIESELSKAB

Manufacturer.

Dates of Survey During progress of work in shops 1963: 11/12-1964: 15/1-31/1-3/2. Is the approved plan of boiler forwarded herewith Yes

while building During erection on board vessel 26/5 - 9/6 - 10/7 - 4/8 - 11/8 - 18/8 Total No. of visits 14

4/9 - 15/9 - 18/9 - & 2/10-64

Is this boiler a duplicate of a previous case. If so, state vessel's name and report No.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler has been built and installed on board under special survey in accordance with the Rules, the approved plans and the Secretary's letter Eng. dated 28.10.63. The material used, tested as per Rules and the workmanship found good.

The boiler tested under steam and found satisfactory. Accumulation test carried out with satisfactory result.

Survey Fee ... £kr. 220,- When applied for 19/2 19 64

Travelling Expenses (if any) £kr. : 15,- When received 19

J. E. Hansen.

Engineer Surveyor to Lloyd's Register of Shipping.

Date FRIDAY 15 JAN 1965

Committee's Minute

See Rpt. 1.