AALBORG VÆRFT A/S O/N 600.

Rpt. 5c.

REPORT ON WATER TUBE BOILERS.

No. ABG 17421.

Received at London Office 24 FEB 1959 29 JAN 1960

Date of writing Report 23-1-1959 When handed in at Local Office 19 Port of AALBORG

No. in Reg. Book. Survey held at Aalborg Date, First Survey 24-7-58. Last Survey shop: 5-1-59. 19

on the (Number of Visits) Tons Gross Net

Built at Tamise, Belgium By whom built Jos. Boel & Sons Yard No. 1362 When built

Engines made at By whom made Engine No. When made

Boilers made at Aalborg By whom made Aalborg Værft A/S Boiler No. 1732-33 When made 1-1959.

HS for Register Book 3014o sq.ft.(280m²) Owners Port belonging to

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

Date of Approval of plan 20-5-58. No. and Description or Type of Boilers 2 off WT in secondary system with indirect evaporation Working Pressure prim: 20 kg/cm² prim: 78,5 kg/cm² prim: 2-12-58 sec: 13,5 " Tested by Hydraulic Pressure to sec: 24 " Date of Test sec: 2-12-58

No. of Certificate ABG 27-28 Can each boiler be worked separately Total Heating Surface of Boilers prim: 2x300 m² Sec: 2x75 m² Superheaters 2 x 65 m²

Half Economisers - Is forced draught fitted yes Area of Fire Grate (coal) in each Boiler -

No. and type of burners (oil) in each boiler 3 off burner atomisers, their type O. 4o

No. and description of safety valves on each boiler prim: 1 off 25mm double "Cockburn" imp. high lift sec: 1 " 88mm " " " " Area of each set of valves per boiler per rule - as fitted prim: 1013 mm² sec: 12414 mm² Pressure to which they are adjusted 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 Height of boiler 9950 mm

Width and length 4700 mm-4500 mm Steam Drums:—Number in each boiler prim: 1 off sec: 1 off Inside diameter prim: 626 mm sec: 1770 mm

Thickness of plates prim: 37 mm sec: 15 mm Range of tensile strength prim: 44-50 kg/mm² sec: 44-55 " " Are drum shell plates welded or flanged prim: welded sec: welded If fusion welded, state name of welding firm prim: Stahl-und Röhrenwerk Reisholz, Düsseldorf sec: Aalborg Værft A/S, Aalborg Have all the requirements of the Rules for Class I vessels been complied with yes Description of ~~riveting~~ Circ. seams welded long. seams welded

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 prim: 38,5/70,5mm Pitch of tube holes prim: 77/160mm

Percentage strength of shell in way of tubes - Steam Drum ~~Heads~~ or Ends:—Range of tensile strength prim: 41-47 kg/mm² sec: 41-47 " "

Thickness of plates prim: 27mm sec: 22mm Radius or how stayed prim: 560 mm sec: 1440 mm Size of manhole or ~~handhole~~ prim: 300x400 mm sec: 300x400 mm Water Drums:—Number in each boiler prim: 1 off Inside diameter 395 mm Thickness of plates 28 mm Range of tensile strength 44-53 kg/mm² Are drum shell plates welded or flanged seamless If fusion welded, state name of welding firm Stahl-und Röhrenwerk Reisholz, Düsseldorf Have all the requirements of the Rules for Class I vessels been complied with for the ends: yes Description of ~~riveting~~ Circ. seams welded long. seams seamless

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 38,5/70,5 mm Pitch of tube holes 77/160 mm

Percentage strength of drum shell in way of tubes - Water Drum ~~Heads~~ or Ends:—Range of tensile strength 41 - 47 kg/mm²

Thickness of plates 75 mm (primary) Radius or how stayed flat as per app. plan Size of manhole or handhole 320 x 360 mm

Headers or ~~Sections~~—Number 4 off square tubes in second. drum Material SM Steel Thickness 33 mm Tested by hydraulic pressure to 78,5 kg/cm²

Tubes:—Diameter 38 mm Thickness 4 mm Number 156 as per app. plan Steam Dome or ~~Collectors~~—Description of joint to shell welded as per app. plan Inside diameter 750 mm Thickness of shell plates 12,5 mm Range of tensile strength 44 - 55 kg/mm² Description of longitudinal joint welded If fusion welded, state name of welding firm Aalborg Værft A/S Have all the requirements for the Rules for Class I vessels been complied with yes Diameter of rivet holes 20 mm Pitch of rivets 48 mm Thickness of straps - Percentage strength of long. joint - plate - rivet -

Crown or ~~End Plates~~:—Range of tensile strength 41 - 47 kg/mm² Thickness 12,5 mm Radius or how stayed 600 mm

SUPERHEATER. ~~Drums~~ or Headers:—Number in each boiler 2 off seamless square tubes Inside diameter 170 x 210 mm Thickness 22 mm Material SM Steel Range of tensile strength 47,3 kg/mm² 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~~ headers 38,5 mm Pitch of tube holes 86 mm Percentage strength of drum shell in way of tubes - ~~Drum~~ Heads or Ends:— flat as per app. plan Thickness 22 mm Range of tensile strength 41-47 kg/mm²

Radius or how stayed flat ends Size of manhole or handhole none Number, diameter, and thickness of tubes 42-38mm - 4 mm

Tested by hydraulic pressure to 41,5 kg/cm² Date of test 10-10-58 Is a safety valve fitted to each section of the superheater which can be shut off from the boiler yes No. and description of safety valves 1 off 38mm single "Cockburn" imp. high lift Area of each set of valves 1134 mm² Pressure to which they are adjusted Is easing gear fitted yes

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

The foregoing is a correct description, AALBORG VÆRFT A/S Manufacturer.

Dates of Survey while building — During progress of work in shops: 24/7-30/7-7/8-13/8-19/8-22/8-27/8-1/9-8/9-15/9-22/9-2/10-9/10-10/10-17/10-29/10-7/11-10/11-17/11-24/11- During erection on board vessel: 26/11-1/12-2/12-10/12-23/12-58,5/1-59. Is the approved plan of boiler forwarded herewith yes Total No. of visits shop: 26

Is this boiler a duplicate of a previous case yes If so, state vessel's name and report No. m.t. "ESSO AARHUS"-Cpn rpt.no. 15961

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. The above boilers have been constructed under Special Survey in accordance with the Rules, the approved plans and the Secretary's letter. The material used has been tested as required by the Rules and the workmanship is good.

To complete the survey the connecting pipes from upper-to lower part of boilers remain to be welded on and tested, when the boilers have been installed.

Survey Fee ... ... £ 36.85.- When applied for 26/1 19 59

Travelling Expenses (if any) £ 1.25.- When received 19

J.M.A

Engineer Surveyor to Lloyd's Register of Shipping.

Date

Committee's Minute See Rpt. 1.

PLEASE RETURN THIS REPORT WITH YOUR FIRST ENTRY.

Entered in Aalborg Rough Fee Book 29-1-59.

26.2.59

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