

Rpt. 5b.

REPORT ON BOILERS.

Received at London Office

Date of writing Report 2-2-62 19 When handed in at Local Office 19 Port of Aalborg.

No. in Survey held at Aalborg Date, First Survey 27-10-61 Last Survey 23-1-62 19
Reg. Book. on the (Number of Visits) Tons { Gross Net

Built at Copenhagen By whom built Burmeister & Wain A/S Yard No. 791 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. 2014 When made 1-62

Owners Port belonging to

VERTICAL BOILER.

Made at Aalborg By whom made Aalborg Værft A/S Boiler No. 2014 When made 1-62 Where fixed

Manufacturers of Steel Plates: Det Danske Staalvalseværk A/S, Stays: " " Tubes: Stewarts & Lloyds Ltd. Bromford & Corby-Phoenix Rheinrohr AG, Düsseldorf.

Total Heating Surface of each Boiler 45 m² Is forced draught fitted yes Coal or Oil fired oil fired.

No. and Description of Boilers 1 off vertical with vertical tube section. Working Pressure 7 kg/cm² *App'n 8 kg/cm²*

Tested by hydraulic pressure to 14 kg/cm² Date of test 23-1-62 No. of Certificate ABG 120

Area of fire grate in each Boiler - No. and description of safety valves to each boiler 2 off 70 mm direct spring loaded *56 mm per plan*

Area of each set of valves per boiler { per Rule. - as fitted 6240 mm² Pressure to which they are adjusted X Are they fitted with easing gear yes ✓

State whether steam from main boilers can enter the donkey boiler. X Smallest distance between boiler or uptake and bunkers

or woodwork. Is oil fuel carried in the double bottom under boiler. Smallest distance between base of boiler and tank top plating

Is the base of the boiler insulated. Largest internal dia. of boiler 1878 mm Height 3390 mm

Shell plates: Material SM Steel Tensile strength 47-49 kg/mm² Thickness 11 mm ✓

Are the shell plates welded or flanged welded If fusion welded, state name of welding firm 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 { end welded inter welded

long. seams welded Dia. of rivet holes in { circ. seams - Pitch of rivets { - Thickness of butt straps { outer - inner -

Shell Crown: Whether complete hemisphere, dished partial spherical, or flat dished Material SM steel Tensile strength 42 kg/mm² Thickness 14 mm ✓

Radius 1520 mm Description of Furnace: Plain, spherical, or dished crown dished Material SM steel

Tensile strength 46 kg/mm² Thickness 19 mm External diameter { top 1500 mm bottom 1700 mm Length as per Rule 700 mm ✓

Pitch of support stays circumferentially - and vertically 1 off 75 mm Are stays fitted with nuts or riveted over welded as per app. plan

Diameter of stays over thread - Radius of spherical or dished furnace crown 1200 mm

Thickness of Ogee Ring 25 mm flat ring with 22 gussets as per app. plan Diameter as per Rule { D 1878 mm d 1700 mm ✓ *18/10/62*

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 Top SM steel Tensile strength { 44 kg/mm² Thickness { 22 mm Mean pitch of stay tubes in nests 282 mm

If comprising shell, dia. as per Rule { front - Pitch in outer vertical rows { - Dia. of tube holes FRONT { stay 65 mm plain 65 mm

Is each alternate tube in outer vertical rows a stay tube no

Girders to Combustion Chamber Tops: Material SM steel Tensile strength 46 kg/mm²

Depth and thickness of girder at centre 100 x 19 mm Length as per Rule as per app. plan

Distance apart 250 mm No. and pitch of stays in each welded in full length as per app. plan.

Is a Report also sent on the Hull of the Ship

(MADE AND PRINTED IN ENGLAND)

2m.4.59-Copyable Ink.

Crown Stays: Material SM steel Tensile strength 47,0-48,6 kg/mm² Diameter { at body of stay, 75 mm or over threads. }
 No. of threads per inch welded as per app. plan 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 no
 Tubes: Material SM steel External diameter { plain 63,5 mm stay 63,5 mm } Thickness { 3,75 mm 8 mm }
 No. of threads per inch welded and expanded as per app. plan Pitch of tubes 88 x 150 mm
 Manhole Compensation: Size of opening in shell plate 338x438 mm Section of compensating ring 100 x 19 mm No. of rivets and diameter of rivet holes welded in as per app. plan Outer row rivet pitch at ends - Depth of flange if manhole flanged -
 Uptake: External diameter - Thickness of uptake plate -
 Down Cross Tubes: No. 2 off External diameters { 318 mm } Thickness of plates 8 mm

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



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

Dates of Survey while building { During progress of work in shops - - 27/10-6/11-8/11-14/11-17/11-24/11- 30/11-8/12-15/12-21/12-61.4/1- During erection on board vessel - - - 9/1-12/1-16/1-23/1-62. } Is the approved plan of boiler forwarded herewith (yes) NOT REC
 Total No. of visits 15

Is this Boiler a duplicate of a previous case yes If so, state Vessel's name and Report No. "KONG OLAV V", Cpn.Rpt.No.18657.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The above boiler has been built under Special Survey in accordance with The Rules, the approved plan no. AQ3:23866a and the Secretary's letter, dated 16th May, 1961.

The upper- and lower part has been welded in accordance with the Rules for Welded Pressure Vessels Class 1 and the X-ray films have been examined by us and found satisfactory.

The routine tests have been carried out with satisfactory results.

The material used has been tested as required by the Rules and the workmanship is good.

On completion the boiler was tested by hydraulic pressure to 14 kg/cm² and found tight.

16.3.62

Survey Fee ... 385.- When applied for 23 FEB. 1962
 Travelling Expenses (if any) £ : : When received 19

G. Hovvi
 Engineer Surveyor to Lloyd's Register of Shipping.

Date FRIDAY 28 JUN 1963
 Committee's Minute Su bpn 20168

Entered in Aalborg Rough Fee Book 22-2-62

