

REPORT ON BOILERS.

No. 6348

Received at London Office. 17 DEC 1946

Date of writing Report 29/11 1946 When handed in at Local Office 19 Port of Stockholm

No. in Reg. Book 69522 Survey held at Stockholm Date, First Survey 17.1 Last Survey 14.11 19 46

on the Single Screw Steamer "BERKEL" (Number of Visits 10) Tons { Gross 1571.7 Net 739.7

Master - Built at Stockholm By whom built A/B Finnboda Varf Yard No. 332 When built 1946

Engines made at Elsinore By whom made A/S Helsingörs Jernsk. & Maskinb. Engine No. 410 When made 1945

Boilers made at Gothenburg By whom made A/B Lindholmens Varv Boiler No. 393-4 When made 1943

Nominal Horse Power 243 241 Owners Stockholms Rederi A/B Svea Port belonging to Stockholm

MULTITUBULAR BOILERS—MAIN, ~~XXXXXXXXXXXXXXX~~

Manufacturers of Steel Avesta Jernverks A/B (Letter for Record S)

Total Heating Surface of Boilers 326 m² 3509 ft² Is forced draught fitted Yes Coal or Oil fired Both

No. and Description of Boilers Two multitubular Working Pressure 15.5 kg/cm²

Tested by hydraulic pressure to 27 kg/cm² Date of test 29.9.43 No. of Certificate 393 & 394 Can each boiler be worked separately Yes

Area of Firegrate in each Boiler 4 m² No. and Description of safety valves to each boiler 2 springloaded valves on each boiler.

Area of each set of valves per boiler { per Rule 6200 mm² 6010 as fitted 11350 mm² Pressure to which they are adjusted 200 lb. 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 ~~XXXXXXXXXX~~ and bunkers ~~XXXXXXXXXX~~ 350 m/m Is oil fuel carried in the double bottom under boilers No

Smallest distance between shell of boiler and tank top plating 375 m/m Is the bottom of the boiler insulated Yes

Largest internal dia. of boilers Length Shell plates: Material Tensile strength

Thickness Are the shell plates welded or flanged Description of riveting: circ. seams { end inter

long. seams Diameter of rivet holes in { circ. seams long. seams Pitch of rivets {

Percentage of strength of circ. end seams { plate rivets Percentage of strength of circ. intermediate seam { plate rivets

Percentage of strength of longitudinal joint { plate rivets Working pressure of shell by Rules combined

Thickness of butt straps { outer inner No. and Description of Furnaces in each Boiler Tensile strength Smallest outside diameter Length of plain part { top bottom Thickness of plates { crown bottom Description of longitudinal joint Dimensions of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules End plates in steam space: Material Tensile strength Thickness Pitch of stays How are stays secured Working pressure by Rules Tube plates: Material { front back Tensile strength Thickness Mean pitch of stay tubes in nests Pitch across wide water spaces Working pressure { front back Girders to combustion chamber tops: Material Tensile strength Depth and thickness of girder at centre Length as per Rule Distance apart No. and pitch of stays in each Working pressure by Rules Combustion chamber plates: Material Tensile strength Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back Top Are stays fitted with nuts or riveted over Working pressure by Rules Front plate at bottom: Material Tensile strength Thickness Lower back plate: Material Tensile strength Thickness Pitch of stays at wide water space Are stays fitted with nuts or riveted over Working pressure Main stays: Material Tensile strength Diameter { At body of stay Over threads No. of threads per inch Area supported by each stay Working pressure by Rules Screw stays: Material Tensile strength Diameter { At turned off part Over threads No. of threads per inch Area supported by each stay

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Working pressure by Rules. Are the stays drilled at the outer ends. Margin stays: Diameter { At turned off part, or Over threads. }
No. of threads per inch. Area supported by each stay. Working pressure by Rules.
Tubes: Material. External diameter { Plain. Stay. } Thickness { No. of threads per inch. }
Pitch of tubes. Working pressure by Rules. Manhole compensation: Size of opening in shell plate. Section of compensating ring. No. of rivets and diameter of rivet holes.
Outer row rivet pitch at ends. Depth of flange if manhole flanged. Steam Dome: Material.
Tensile strength. Thickness of shell. Description of longitudinal joint.
Diameter of rivet holes. Pitch of rivets. Percentage of strength of joint { Plate. Rivets. }
Internal diameter. Working pressure by Rules. Thickness of crown. No. and diameter of stays.
Inner radius of crown. Working pressure by Rules.
How connected to shell. Size of doubling plate under dome. Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell.

Type of Superheater. Schmidts system. Manufacturers of Tubes. Sandvikens Jernverks A/B, Sandviken
Number of elements. 56. Material of tubes. Steel Sandviken No. 3. Internal diameter and thickness of tubes. 18 m/m thickn. 3 m
Material of headers. Cast steel. Tensile strength. 53.2-54.0 kg/mm². Thickness. 18 & 25 m/m. Can the superheater be shut off and the boiler be worked separately. Yes. Is a safety valve fitted to every part of the superheater which can be shut off from the boiler. Yes
Area of each safety valve. 2000 mm². Are the safety valves fitted with easing gear. Yes. Working pressure as per Rules. 20.8 kg/cm². Pressure to which the safety valves are adjusted. 225 lbs. Hydraulic test pressure tubes. 100 kg/cm². Forgings and castings. 50 kg/cm². and after assembly in place. 50 kg/cm². Are drain cocks valves fitted to free the superheater from water where necessary. Yes
Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with. Yes

Total H.S. of G.H. = 190 m²
= 2044 #

The foregoing is a correct description,
AKTIEBOLAGET FINNBODA VARF
H. Lund

Dates of Survey while building { During progress of work in shops - - } Are the approved plans of boiler and superheater forwarded herewith. No
{ During erection on board vessel - - }
7/1, 1 & 20/3, 8 & 24/4, 27/8, Total No. of visits. 10
16 & 30/9, 7/10 and 14/11-1946.

Is this Boiler a duplicate of a previous case. Yes. If so, state Vessel's name and Report No. S.S. "BIFROST"

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These boilers have been installed and securely fitted under my inspection and to my satisfaction and have been tested under full working pressure and found good.

Please see Got. report No. 13761.

Survey Fee ... £ : : } When applied for, 19.....
Travelling Expenses (if any) £ : : } When received, 19.....

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute. FRI. 10 JAN 1947

Assigned. See F.E. mch. opt.



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