

REPORT ON BOILERS.

No. 11234

Received at London Office

11. MAY 25 1922

Date of writing Report 24th May 1922 When handed in at Local Office 24th May 1922 Port of Southampton

No. in Survey held at Cowes Date, First Survey April 19th Last Survey May 24th 1922

Reg. Book. 27855 on the "NESS" ex "ALEXANDER PALMER" (Number of Visits 6) Tons } Gross 275
Net 107

Master ✓ Built at Middlesbro' By whom built Smiths Dock Co. Ltd. When built 1917

Engines made at Newcastle By whom made Hawthorn Leslie & Co. Ltd. when made 1917

Boilers made at Newcastle By whom made Hawthorn Leslie & Co. Ltd. when made 1917

Registered Horse Power _____ Owners J.S. White & Co. Ltd. Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel ✓

(Letter for record S) Total Heating Surface of Boilers 1619 sq Is forced draft fitted No No. and Description of

Boilers One Single-ended Working Pressure 180 lbs Tested by hydraulic pressure to 270 lbs Date of test ✓

No. of Certificate ✓ Can each boiler be worked separately ✓ Area of fire grate in each boiler 50.6 sq No. and Description of

safety valves to each boiler 2 spring loaded Area of each valve 4.9 sq Pressure to which they are adjusted 180 lbs

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers or uptakes and bunkers or woodwork 9 in dia. of boilers 13'-6" Length 10'-6"

Material of shell plates S Thickness 1 1/8 in Range of tensile strength 26-30 Are the shell plates welded or flanged ✓

Descrip. of riveting: cir. seams D.R. long. seams T.R. D.B.S. Diameter of rivet holes in long. seams 1 1/8 in Pitch of rivets 7 7/8 in

width of butt straps 1'-5 1/2 in Per centages of strength of longitudinal joint rivets 94.7 Working pressure of shell by

rules 184 lbs Size of manhole in shell 16 x 12 in Size of compensating ring 37 x 33 x 1 1/8 in No. and Description of Furnaces in each

boiler 3 Steam Material S Outside diameter 3'-6" Length of plain part 6'-3 1/2 in Thickness of plates 7.812 in

Description of longitudinal joint welded No. of strengthening rings None Working pressure of furnace by the rules 182 lbs Combustion chamber

plates: Material S Thickness: Sides 1 1/8 in Back 3 1/2 in Top 1 1/8 in Bottom 1 in Pitch of stays to ditto: Sides 10 x 7 1/2 in Back 9 1/2 x 7 1/2 in

Top 10 x 8 3/4 in If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 210 lbs Material of stays S Diameter at

smallest part 1 3/4 in Area supported by each stay 73.25 sq Working pressure by rules 284 lbs End plates in steam space: Material S Thickness 1 3/16 in

Pitch of stays 18 1/2 x 18 in How are stays secured D.N.S. & W.S. Working pressure by rules 200 lbs Material of stays S Diameter at smallest part 3 in

Area supported by each stay 333 sq Working pressure by rules 221 lbs Material of Front plates at bottom S Thickness 1 1/16 in Material of

Lower back plate S Thickness 1 5/16 in Greatest pitch of stays 14 1/2 x 7 1/2 in Working pressure of plate by rules 258 lbs Diameter of tubes 3 1/2 in

Pitch of tubes 9 1/2 in Material of tube plates S Thickness: Front 1 1/16 in Back 3/4 in Mean pitch of stays 9 3/4 in Pitch across wide

water spaces 14 1/2 in Working pressures by rules 189 lbs Girders to Chamber tops: Material S Depth and thickness of

girder at centre 8 1/2 x 14 in Length as per rule 27 in Distance apart 8 1/4 in Number and pitch of Stays in each 2 at 10 in

Working pressure by rules 238 lbs Superheater or Steam chest: how connected to boiler _____ Can the superheater be shut off and the boiler worked

separately _____ Diameter _____ Length _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet

holes _____ Pitch of rivets _____ Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____

If stiffened with rings _____ Distance between rings _____ Working pressure by rules _____ End plates: Thickness _____ How stayed _____

Working pressure of end plates _____ Area of safety valves to superheater _____ Are they fitted with easing gear _____

VERTICAL DONKEY BOILER— No. _____ Description _____ Manufacturers of steel _____

Made at _____ By whom made _____ When made _____ Where fixed _____ Working pressure _____

tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of safety valves _____

No. of safety valves _____ Area of each _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If steam from main boilers can

enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____ Range of tensile

strength _____ Descrip. of riveting long. seams _____ Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____

Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Working pressure of shell by rules _____ Thickness of shell crown plates _____

Radius of do. _____ No. of Stays to do. _____ Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____

Thickness of furnace plates _____ Description of joint _____ Working pressure of furnace by rules _____ Thickness of furnace crown

plates _____ Radius of do. _____ Stayed by _____ Diameter of uptake _____ Thickness of uptake plates _____

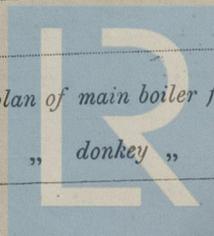
Thickness of water tubes _____

The foregoing is a correct description, _____
Manufacturer. _____

Dates of Survey while building { During progress of work in shops - - }
{ During erection on board vessel - - - }
Total No. of visits _____

Is the approved plan of main boiler forwarded herewith _____

" " " donkey " " _____



© 2020

Lloyd's Register Foundation

008925-008937-0247

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

[The main body of the page is ruled with horizontal lines for handwritten notes, but it is currently blank.]

Certificate (if required) to be sent to
(The Surveys are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee...	£	:	:	When applied for,
Special	£	:	:	19
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	19

J.G. Mackillop
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 20 MAY. 1922
Assigned See minute on other report