

REPORT ON BOILERS.

No. 77854
WFO. 14 MAY. 1924

Received at London Office

Date of writing Report 19 When handed in at Local Office 13/5/1924 Port of NEWCASTLE-ON-TYNE
 No. in Survey held at Date, First Survey 23rd October 1922 Last Survey 16th May 1924
 Reg. Book. on the Donkey Boiler for S.S. BRITISH DUCHESS. (Number of Visits —) (Gross Tons —) (Net Tons —)
 Built at Sunderland By whom built J. L. Thompson Ltd. When built 1924
 Engines made at James W. & Co. By whom made Palmers & Co. Ltd. When made 1924
 Boilers made at do By whom made do When made 1924
 Registered Horse Power Owners British Tankers Co. Ltd. Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer Ltd.
 Letter for record S. Total Heating Surface of Boilers 1119 sq. ft. Is forced draft fitted No. and Description of Boilers One cyl multi Working Pressure 120 Tested by hydraulic pressure to 250 Date of test 9/2/23
 No. of Certificate 9725 Can each boiler be worked separately Area of fire grate in each boiler Oil Fuel No. and Description of Safety valves to each boiler 2 spring loaded Area of each valve 7.068 sq. in. Pressure to which they are adjusted 125 lb. 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 Fitted in deck. Mean dia. of boilers 10' 6" Length 10' 6"
 Material of shell plates Steel Thickness 3 1/2" Range of tensile strength 28/32 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams D.R.L. long. seams TRUBS. Diameter of rivet holes in long. seams 7/8" Pitch of rivets 4 5/8"
 Width of butt straps 1-1 1/2" Per centages of strength of longitudinal joint rivets 91.6% plate 81% Working pressure of shell by rules 124.5
 Size of manhole in shell 20" x 16" Size of compensating ring 32 1/2" x 30" x 3/4" No. and Description of Furnaces in each boiler 2 Reigittans Material Steel Outside diameter 3' 1 1/2" Length of plain part top 15' 5" bottom 15' 5" Thickness of plates crown 3 3/8" bottom 3 3/8"
 Description of longitudinal joint Welded No. of strengthening rings — Working pressure of furnace by the rules 155.5 Combustion chamber Material Steel Thickness: Sides 19/32 Back 3/4" Top 19/32 Bottom 19/32 Pitch of stays to ditto: Sides 10" x 10" Back 11" x 9 1/2"
 If stays are fitted with nuts or riveted heads Working pressure by rules 121.5 Material of stays Steel Area at smallest part 1.338 Area supported by each stay 104.8 Working pressure by rules 120 End plates in steam space: Material Steel Thickness 1 1/2"
 How are stays secured D.R.W. Working pressure by rules 120 Material of stays Steel Area at smallest part 2 1/2"
 Area supported by each stay 446.5 Working pressure by rules 123 Material of Front plates at bottom Steel Thickness 3/4" Material of over back plate Steel Thickness 3/4" Greatest pitch of stays 14 1/2" x 11" Working pressure of plate by rules 139 Diameter of tubes 3"
 Material of tube plates Steel Thickness: Front 3/8" Back 3/8" Mean pitch of stays 10' 6" Pitch across wide of tubes 14 1/2" x 8 1/2" Working pressures by rules 150.5 Girders to Chamber tops: Material Steel Depth and thickness of plates at centre 6" x 1" Length as per rule 25.7" Distance apart 8 1/2" Number and pitch of Stays in each 2 @ 10"
 Working pressure by rules 124 Steam dome: description of joint to shell — % of strength of joint —
 Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet holes —
 Working pressure of shell by rules — Crown plates — Thickness — How stayed —
SUPERHEATER. Type — Date of Approval of Plan — Tested by Hydraulic Pressure to —
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler —
 Pressure to which each is adjusted — Is Easing Gear fitted —

VERTICAL DONKEY BOILER— No. Description Manufacturers of steel
 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
 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
 Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates
 No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace
 Description of joint Working pressure of furnace by rules Thickness of furnace crown
 Stayed by Diameter of uptake Thickness of uptake plates
 Description of water tubes

Palmers & Co. Ltd. & Co. Ltd. Description,
 D. Kemp. Manufacturer.
 General Manager, Engine Works.

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 " " "

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GENERAL REMARKS

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

This boiler has been built under special survey & the materials & workmanship are good. On completion it was tested by hydraulic pressure to 230 lbs & found sound & tight, for notation see machinery report.

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the spaces for Committee's Minute.)

The amount of Entry Fee .. £

Special .. £

Donkey Boiler Fee .. £

Travelling Expenses (if any) £

When applied for.

19...

When received.

19...

Committee's Minute

TUE. 20 MAY. 1924

Assigned

St. Botto
Engineer Surveyor to Lloyd's Register of Shipping



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