

REPORT ON BOILERS

No. 75999

Received at London Office OCT. 4 1922
NEWCASTLE-ON-TYNE.

Date of writing Report 25.9.22 When handed in at Local Office 3.10.22 Port of
No. in Survey held at WALKER ONTYNE Date, First Survey 6 July/21 Last Survey 29 Sept 1922
Reg. Book. on the STEEL SCREW STEAMER BRITISH GUNNER. 1130
Built at WALKER By whom built SWAN, HUNTER, W. RICHARDSON When built 1922
Engines made at WALKER By whom made S.H.W.R.L. 1130 When made 1922
Boilers made at WALKER By whom made S.H.W.R.L. 1130 When made 1922
Registered Horse Power Owners BRITISH TANKER CO LD Port belonging to LONDON

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel SPENCER & CO LD
Letter for record S Total Heating Surface of Boilers 8225 Is forced draft fitted YES No. and Description of
Boilers 3. S.E. CYL. MULTI Working Pressure 200 lb Tested by hydraulic pressure to 350 lb Date of test 26.1.22
No. of Certificate 9643 Can each boiler be worked separately YES Area of fire grate in each boiler OIL FUEL No. and Description of
Safety valves to each boiler TWO DIRECT SPRING Area of each valve 11.04 lb Pressure to which they are adjusted 2.05 lb
Are they fitted with easing gear YES In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler NON-R. VALVE
Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 16'-0" Length 13'-0"
Material of shell plates STEEL Thickness 13 1/2" Range of tensile strength 30/34 TMS Are the shell plates welded or flanged NO
Descrip. of riveting: cir. seams L.O.R long. seams O.B.S. TR Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9 1/4"
Up of plates or width of butt straps 20 1/8" Per centages of strength of longitudinal joint rivets 85.9% Working pressure of shell by
rules 201 lb Size of manhole in shell 16" x 12" Size of compensating ring 3-5 1/4" x 3-1 1/4" x 1 1/2" No. and Description of Furnaces in each
Boiler 4 DEIGHTON Material STEEL Outside diameter 3'-6 1/8" Length of plain part 8'-0 1/4" Thickness of plates crown 9/16" bottom
Description of longitudinal joint WELD No. of strengthening rings -- Working pressure of furnace by the rules 210 lb Combustion chamber
plates: Material STEEL Thickness: Sides 1 1/8" Back 1 1/8" Top 1 1/8" Bottom 1 1/8" Pitch of stays to ditto: Sides 8 1/2" x 9 1/4" Back 8 1/2" x 8"
Top 8 1/2" x 9" If stays are fitted with nuts or riveted heads SEE PLAN Working pressure by rules 200 lb Material of stays STEEL Area at
smallest part 1 7/8" Area supported by each stay 74.25 Working pressure by rules 203 lb End plates in steam space: Material STEEL Thickness 1 9/32"
Pitch of stays 1 1/2" x 2 1/2" How are stays secured D. NUTS Working pressure by rules 208 lb Material of stays STEEL Area at smallest part 3 1/8"
Area supported by each stay 337 Working pressure by rules 206 lb Material of Front plates at bottom STEEL Thickness 1" Material of
lower back plate STEEL Thickness 1 5/8" Greatest pitch of stays 8 1/4" x 14 1/2" Working pressure of plate by rules 259 lb Diameter of tubes 3 1/4"
Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates STEEL Thickness: Front 1" Back 7/8" Mean pitch of stays 11 1/2" Pitch across wide
water spaces 14 1/4" Working pressures by rules F. 223 lb B. 218 lb Girders to Chamber tops: Material STEEL Depth and thickness of
girder at centre 9" x 1 1/2" Length as per rule 32.4" Distance apart 9" Number and pitch of Stays in each 39 8 1/2" pitch
Working pressure by rules 207 lb Steam dome: description of joint to shell NONE % of strength of joint --
Diameter -- Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

PERHEATER. Type ROBINSON Date of Approval of Plan DUPLICATE. S/S 1126 Tested by Hydraulic Pressure to 600 lb / 420 lb L.S.
Date of Test 7.4.22 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler YES
Diameter of Safety Valve 1 1/2" Pressure to which each is adjusted 207 lb Is Easing Gear fitted YES LEVER
SEE APPENDIX. REPT.
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
No. of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates
Diameter 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,
FOR SWAN, HUNTER & WIGHAM RICHARDSON, LTD. Manufacturer.

During progress of work in shops --
During erection on board vessel --
Total No. of visits

See Machinery Report.

Is the approved plan of main boiler forwarded herewith YES

" " " donkey " " YES

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

The main Boilers built under Special Survey.
 The workmanship found good and efficient.
 The Boilers fitted up on board the vessel. Tested under steam, found satisfactory.
 The Superheaters. tested under hydraulic and steam pressure and found satisfactory.
 The Boiler Safety Valves adjusted for a working pressure of 200 lbs.
 Fitted up for burning oil fuel (F.O.). flash point of oil above 150° F.
 L. G. Shalmon.

pt. 5.
 Date of writing Report
 No. in Survey
 Reg. Book.
 on the 57.
 Master
 Engines made at
 Boilers made at
 Registered Horse Power
 MULTITUBULAR
 Letter for record
 Boilers ONE - S
 No. of Certificate
 Safety valves to each
 Are they fitted with
 Smallest distance between
 Material of shell plates
 Description of riveting
 Lap of plates or webs
 Plates 134 1/4
 Boiler 2 - DEIGH
 Description of longitudinal
 Plates: Material
 9 1/4 x 8 If standard
 DIA 13/8
 Pitch of stays 20 x
 Truss supported by
 Lower back plate 5
 Pitch of tubes 3 1/2
 Water spaces 13
 Order at centre 6
 Working pressure
 Diameter
 Pitch of rivets
 PERHEATE
 Date of Test
 Diameter of Safety Valve
 VERTICAL D
 Made at
 Tested by hydraulic pressure
 Pitch of safety valves
 For the donkey boiler
 Length Description
 Pitch of plating
 Thickness of do.
 Thickness of furnace
 Thickness of water tank
 During pressure
 Survey while
 ding board vessel
 Total No.

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

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

Committee's Minute

FRI. 6 OCT. 1922

Assigned

See other Rpt. No. 75999

L. G. Shalmon

Engineer Surveyor to Lloyd's Register of Shipping



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 Foundation