

pt. 5.

# REPORT ON BOILERS.

Con Rpt. No 82096  
No. 10788

date of writing Report	Jan. 1919	When handed in at Local Office	Port of	Grimsthorpe
No. in Survey held at	Lincoln.	Date, First Survey	May 3.	Last Survey Dec 20 1918
Ref. Book.	Boiler for H.M. Drifter "Gloss."	(Number of Visits)	26.	Gross Tons Net #919
aster	Built at Lowestoft	By whom built	Colly Bros N° 99	When built 1919
Engines made at Somerby Bridge	By whom made	Pollitt & Miggell Ltd	When made 1918	1918
oilers made at Lincoln	By whom made	Ruston Hornsby & Co (43352)	When made	1918
Registered Horse Power 43	Owners	Admiralty	Port belonging to	John Spencer Jones

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel		No. and Description of	
Letter for record	5	Total Heating Surface of Boilers	814 ft <sup>2</sup> Is forced draft fitted no
Boilers	One single ended	Working Pressure	180 lb Tested by hydraulic pressure to 300 lb Date of test 20-12-18
No. of Certificate	172	Can each boiler be worked separately	Area of fire grate in each boiler 30.5 ft <sup>2</sup> No. and Description of
safety valves to each boiler	2 Direct Spring	Area of each valve 3.980	Pressure to which they are adjusted 180 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 or uptakes and bunkers or woodwork	6'	Mean dia. of boilers 10'-0"	Length 9'-6"
Material of shell plates	Steel	Thickness 27/32" Range of tensile strength 28632 lbs to the shell plates welded or flanged	40"
Descript. of riveting : cir. seams	Lap 28. TR-long. seams DBS. TR	Diameter of rivet holes in long. seams 15/16" Pitch of rivets 7"	
Top of plates or width of butt straps	13 3/4"	Per centages of strength of longitudinal joint rivets 86.9% plate 86.6%	Working pressure of shell by
rules	182 lb	Size of compensating ring 62 x 27/32"	No. and Description of Furnaces in each
Boiler	2 Plain Material Steel	Outside diameter 3'-2"	top 6-0 9/16" thickness of plates crown 11/16" bottom
Description of longitudinal joint	Head.	No. of strengthening rings ✓ Working pressure of furnace by the rules 176 lb Combustion chamber	
plates : Material	Steel	Thickness : Sides 9/16" Back 9/16" Top 9/16" Bottom 9/16" Pitch of stays to ditto : Sides 8x7/4" Back 8x7/2"	
Top 8x9	If stays are fitted with nuts or riveted heads	nuts ✓ Working pressure by rules 182 Material of stays Steel Area at	
smallest part 148	Area supported by each stay 600	Working pressure by rules 197 End plates in steam space : Material Steel Thickness 7/8"	
Pitch of stays 14x14	How are stays secured DOWBLE NUTS WASHERS	Working pressure by rules 185 Material of stays Steel Area at smallest part 3.40"	
Area supported by each stay 196	Working pressure by rules 182 Material of Front plates at bottom Steel Thickness 7/8" Material of		
Lower back plate	Steel	Thickness 7/8" Greatest pitch of stays 13 1/4 x 7/2" Working pressure of plate by rules 230 Diameter of tubes 3 1/4"	
Pitch of tubes 4 1/8 x 4 1/4" Material of tube plates Steel	Thickness : Front 9/8" Back 9/16" Mean pitch of stays 9.9 Pitch across wide		
water spaces 13 1/4 (5/8 in)	Working pressures by rules 173 lb	Girders to Chamber tops : Material Steel Depth and thickness of	
jirder at centre 8x18	Length as per rule 284 Distance apart 7'	Number and pitch of Stays in each 2@8"	
Working pressure by rules 190	Superheater or Steam chest ; how connected to boiler None	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	Descript. 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 Plates	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	Stayed by	Working pressure of furnace by rules	Thickness of furnace crown	
plates	Radius of do.		Diameter of uptake	Thickness of uptake plates	
Thickness of water tubes					

The foregoing is a correct description,  
Ruston & Hornsby Ltd  
per C. D. Parker  
Manufacturer

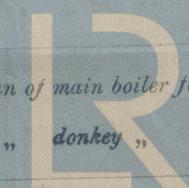
Dates of Survey while building  
 During progress of work in shops --  
 During erection on board vessel --  
 Total No. of visits 26

1918 May 3. 8-17-22 June 7-12-24 July 5-12-19 Aug 2-20-22 Sept 6-24-30 Oct 4-16-22-30

Nov 4-14-20-29 Dec 24-30

Is the approved plan of main boiler forwarded herewith

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W1213-0167

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been built under Special Survey in accordance with the approved plan-specification. The materials & workmanship are good.

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

The amount of Entry Fee £ 4-10- When applied for, *Aug 19*  
Special £ 4-10-  
Donkey Boiler Fee £ 2-14- When received, *23/11/19 RRSN 2010*  
Travelling Expenses (if any) £ 2-14- *1910*

Committee's Minute TUE AUG 26 19

Assigned *See minute on*

*Saf. Ref. 312*

W. Ritchie, &  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Robert Rae 21



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