

Hull Rpt No 23570

REPORT ON BOILERS.

No. 6606
THUR. 30 MAR 1911
Received at London Office SAT. 7 JAN 1911

of writing Report 6/1/11 When handed in at Local Office Hull 11th Jan. 1911 Port of Middlesbrough
 in Survey held at Stockton-on-Tees Date, First Survey 13th Decr. Last Survey 30th Decr. 1910
 Book. 23 on the boiler for the Iron Steam Trawler "Fulmar" (Number of Visits 11) Gross 231
 Net 93
 Built at Hull By whom built Cook Wilton & Gemmel When built 1899-3
 Plates made at Hull By whom made C. S. Holmes & Co when made 1899
 Rivets made at Stockton By whom made Riley Bros Ltd. (N^o 4226) when made 1910
 Registered Horse Power Owners Pickering & Haldane's S.F. Co Ltd. Port belonging to Hull.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer Stone
 Serial for record (S) Total Heating Surface of Boilers 1042 sq ft Is forced draft fitted No. No. and Description of
 Boilers One single ended Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 30.12.10
 No. of Certificate 4554 Can each boiler be worked separately Yes Area of fire grate in each boiler 30 sq ft No. and Description of
 Safety valves to each boiler Two springs Area of each valve 3.946 Pressure to which they are adjusted 200 LBS.
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes
 Least distance between boilers or uptakes and bunkers or woodwork 5" Mean dia. of boilers 11'-6" Length 9'-6"
 Material of shell plates steel Thickness 1 1/2" Range of tensile strength 28-32 Are the shell plates welded or flanged no
 Direction of riveting: cir. seams 2 Riv Lap long. seams 2 Riv - 3 Riv Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 8"
 No. of rivets per pitch upper half 3 Rivs 5 Rivs per pitch
 Width of butt straps 16 1/2 x 1 1/2" Per centages of strength of longitudinal joint rivets 97.0 Working pressure of shell by
 plate 85.12
 Size of manhole in shell 16" x 12" Size of compensating ring 9 in. rivets No. and Description of Furnaces in each
 boiler 2 plain Material steel Outside diameter 41" Length of plain part top 5'-8" Thickness of plates crown 1 3/16"
 bottom 1 1/4"
 Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 212 Combustion chamber
 Material steel Thickness: Sides 1 1/16" Back 2 1/32" Top 1/2" Bottom 1 3/16" Pitch of stays to ditto: Sides 9" x 7" Back 8" x 8"
9" x 7" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 251 Material of stays steel Diameter at
 smallest part 1 1/2" Area supported by each stay 63 Working pressure by rules 253 End plates in steam space: Material steel Thickness 1 3/4"
 How are stays secured nuts & 8 x 3/8 loose washers Working pressure by rules 216 Material of stays steel Diameter at smallest part 2.66"
 supported by each stay 240 Working pressure by rules 240 Material of Front plates at bottom steel Thickness 1 3/4" Material of
 back plate steel Thickness 1 3/4" Greatest pitch of stays 14" x 8" Working pressure of plate by rules 297 Diameter of tubes 3 1/2"
 of tubes 5" x 4 1/2" Material of tube plates steel Thickness: Front 1 3/4" Back 7/8" Mean pitch of stays 10 15/16" Pitch across wide
 spaces 14 1/2" Working pressures by rules 200 Girders to Chamber tops: Material steel Depth and thickness of
 at centre 9 1/2" x 1 1/2" Length as per rule 2'-10" Distance apart 8" Number and pitch of Stays in each 3 @ 7"
 Working pressure by rules 201 Superheater or Steam chest; ~~how connected to boiler~~ none Can the superheater be shut off and the boiler worked
 solely Yes Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 supported 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

The foregoing is a correct description,
RILEY BROS. BOILERMAKERS LTD. Manufacturer.

During progress of work in shops - 1910. Decr. 13. 18. 20. 31. Nov. 2. 8. 11. 18. 23. 29. Decr. 16. 16. Is the approved plan of boiler forwarded herewith yes
 During erection on board vessel - 20. 23. 30. Total No. of visits 11

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built for special survey, is of good material and workmanship and on completion was tested by hydraulic pressure with satisfactory results. It is stated that the boiler will be fitted on board at Hull and boiler has now been fitted on board.

Fee ... £ 3-9-0 When paid for Monthly a/c.
 Selling Expenses (if any) £ ✓ When received, 1911
Wm Morrison
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.