

REPORT ON BOILERS.

LONDON RPT 88621

No. 10599

JUL 17 1920

Received at London Office

of writing Report 13/2/20 19 When handed in at Local Office 14/2/20 19 Port of Middlesbrough
 Survey held at Stockton-on-Tees Date, First Survey 19 June 1919 Last Survey 17 February 1920
 on the S.S. "Margaret Buck" (Number of Visits 11) Gross Tons 11 Net Tons 11
 Built at New Holland By whom built Warren (New Holland) Shipyard Ltd When built 1925
 Plates made at St. James By whom made Byattree & Co. Ltd When made 1925
 Boilers made at Stockton By whom made Thos. Riley Bros Ltd (N° 5057) When made 1920
 Registered Horse Power 100 Owners Mrs. W. I. Warren Port belonging to New Holland

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Thos. J. Spencer & Sons Ltd
 Matter for record (S)) Total Heating Surface of Boilers 1430 1/4 Is forced draft fitted No No. and Description of
 Boilers One single ended SB Working Pressure 130 Tested by hydraulic pressure to 260 Date of test 11.2.20
 of Certificate 6084 Can each boiler be worked separately Area of fire grate in each boiler 37.7 1/2 No. and Description of
 Safety valves to each boiler 2. Spring loaded Area of each valve 7.06 Pressure to which they are adjusted 130 1/2
 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 Inside bunkers 3 1/2 dia. of boilers 12'-6" Length 10'-6"
 Material of shell plates steel Thickness 25/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no
 Description of riveting: cir. seams 2 R. lap long. seams 2 B-3 Riv Diameter of rivet holes in long. seams 15/16 Pitch of rivets 7 1/4
 Width of butt straps 13 3/4 x 4 1/2 Per centages of strength of longitudinal joint rivets 91.0 Working pressure of shell by
 rules 134 Size of manhole in shell 19" x 15" Size of compensating ring 7" x 1" 9/16" dia plate 87.03
 No. and Description of Furnaces in each
 Boiler 2 plain 2 1/2 Material steel Outside diameter 42 Length of plain part top 75 1/4 Thickness of plates crown 23/32
 Description of longitudinal joint Weld No. of strengthening ring none Working pressure of furnace by the rules 142 Combustion chamber
 plates: Material steel Thickness: Sides 19/32 Back 9/16 Top 19/32 Bottom 13/16 Pitch of stays to ditto: Sides 10" x 9" Back 8 3/4" x 9"
 Pitch 10" x 9" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 134 Material of stays steel Area at
 smallest part 1.45 Area supported by each stay 75.75 Working pressure by rules 147 End plates in steam space: Material steel Thickness 7/8
 Pitch of stays 17" x 16 1/4 How are stays secured nuts Working pressure by rules 131 Material of stays steel Area at smallest part 3.67
 Area supported by each stay 295 Working pressure by rules 167 Material of Front plates at bottom steel Thickness 1 1/8 Material of
 lower back plate steel Thickness 3/4 Greatest pitch of stays 14" x 9" Working pressure of plate by rules 140 Diameter of tubes 3 1/4
 Pitch of tubes 4 3/4" x 4 1/2" Material of tube plates steel Thickness: Front 13/16 Back 1/2 Mean pitch of stays 10 1/2 Pitch across wide
 inter spaces 13 3/4 Working pressures by rules 134 Girders to Chamber tops: Material steel Depth and thickness of
 girder at centre 8" x 1 1/4 Length as per rule 32 Distance apart 9 Number and pitch of Stays in each 2 @ 15"
 Working pressure by rules 134 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

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,

FOR RILEY BROS. (BOILERMAKERS) LTD Manufacturer.

Dates During progress of work in shops - - - 1919 Jun 19, Jul 4-15, Oct 7-24, Dec 5, Jan 21-28.
 while During erection on board vessel - - - Feb. 3-11.

Is the approved plan of boiler forwarded herewith yes.
 Total No. of visits 11

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under
special survey: is of good material and workmanship and on completion was tested by
hydraulic pressure with satisfactory results.
Boiler examined under steam & safety valves adjusted to 130 lbs.

Survey Fee ... £ 4-15-9 When applied for, Monthly 19
 Travelling Expenses (if any) £ : : When received, 19

18 FEB 1920

Wm Morrison T. L. Falmace
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned Not for classing Committee

014513-014530-0345

Lloyd's Register
 Foundation