

REPORT ON BOILERS.

No. 53068

WED. 12 JUN 1907

Date of writing Report 9. 6. 1907 When handed in at Local Office 11 JUN 1907 Port of Newcastle on Tyne
 No. in Survey held at S. Shields Date, First Survey June 4th 1907 Last Survey June 4th 1907
 Reg. Book. S. Shields (Number of Visits 1) Gross 3628
 on the S. S. Dan Tons Net 2316
 Master S. Shields Built at S. Shields By whom built J. Redhead & Sons Ltd When built 1907. 6
 Engines made at S. Shields By whom made J. Redhead & Sons Ltd when made 1907. 6
 Boilers made at S. Shields By whom made J. Redhead & Sons Ltd when made 1907
 Registered Horse Power 400 Owners J. Reich & Partners Port belonging to Sukronik

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Spencer, Huston
 (Letter for record (r)) Total Heating Surface of Boilers 703 sq. ft. Is forced draft fitted ✓ No. and Description of Boilers One cyl. mult. S. E. Working Pressure 80 lb. Tested by hydraulic pressure to 160 lb. Date of test 25. 6. 07
 No. of Certificate 7467 Can each boiler be worked separately ✓ Area of fire grate in each boiler 26. 6 sq. ft. No. and Description of safety valves to each boiler 2. Spring Area of each valve 7. 068 sq. in. Pressure to which they are adjusted 82 lb.
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler h
 Smallest distance between boilers or uptakes and bunkers or woodwork On Deck Mean dia. of boilers 9'- 6" Length 10'- 0"
 Material of shell plates S. Thickness 9/16" Range of tensile strength 27/32 T. Are the shell plates welded or flanged h
 Descrip. of riveting: cir. seams L. D. R. long. seams L. D. R. Diameter of rivet holes in long. seams 17/16" Pitch of rivets 3"
 Lap of plates or width of butt straps 4 3/4" Per centages of strength of longitudinal joint rivets 69.5 Working pressure of shell by rules 82.5 lb. Size of manhole in shell 16 x 12" Size of compensating ring 6 x 9/16" No. and Description of Furnaces in each boiler 2. Plain Material S. Outside diameter 36" Length of plain part top 80" Thickness of plates crown 1/2" bottom 5/8"
 Description of longitudinal joint L. S. R. No. of strengthening rings 1 Working pressure of furnace by the rules 93 lb. Combustion chamber plates: Material S. Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 5/8" Pitch of stays to ditto: Sides 9" Back 10. 9/2"
 Top Plain stays are fitted with nuts or riveted heads h Working pressure by rules 115 lb. Material of stays I Diameter at smallest part 1. 48" Area supported by each stay 95 sq. in. Working pressure by rules 109 lb. End plates in steam space: Material S. Thickness 13/16"
 Pitch of stays 19. 17" How are stays secured D. N. W. Working pressure by rules 95 lb. Material of stays S. Diameter at smallest part 2. 87"
 Area supported by each stay 323 sq. in. Working pressure by rules 96.5 lb. Material of Front plates at bottom S. Thickness 13/16" Material of Lower back plate S. Thickness 13/16" Greatest pitch of stays 12" x 10" Working pressure of plate by rules 187 lb. Diameter of tubes 3 1/2"
 Pitch of tubes 4 3/8" Material of tube plates S. Thickness: Front 13/16" Back 1 1/16" Mean pitch of stays 16 7/16" Pitch across wide water spaces 16" Working pressures by rules 92 lb. Girders to Chamber tops: Material h Depth and thickness of girder at centre Plain Stay Length as per rule ✓ Distance apart 15 1/2" Number and pitch of Stays in each ✓
 Working pressure by rules ✓ Superheater or Steam chest; how connected to boiler h 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 ✓

The foregoing is a correct description,
J. Redhead & Sons Manufacturer.

Dates of Survey Please see Rpt on Machinery Is the approved plan of boiler forwarded herewith Yes
 while building During erection on board vessel - - - Total No. of visits 1

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c. This Boiler has been constructed under Special Survey. The materials and workmanship sound. It has been fitted on board the above vessel in a satisfactory manner.

Survey Fee ... £ 0 : 0 : When applied for, 11 JUN 1907
 Travelling Expenses (if any) £ 0 : 0 : When received, 14. 6. 07

Committee's Minute
 Assigned
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.
W. Lane
 JUN 14 1907
 Lloyd's Register Foundation
 W97-0095