

REPORT ON BOILERS.

No. 37968.

Received at London Office

JUL 24 1918

Date of writing Report 16th July 1918 When handed in at Local Office Glasgow Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 13/9/17 Last Survey 8th July 1918
 Reg. Book. S.S. Humphreys (Number of Visits 63) Gross Tons 1041 Net Tons 818
 on the Marine Boiler designated No 3649 for Admiralty Small Type Trawler
 Master ROBERT FAIRCLOUGH By whom built Abdela & Mitchell When built 1918
 Engines made at Glasgow By whom made James Neilson & Son Ltd When made 1918
 Boilers made at Glasgow By whom made James Neilson & Son Ltd When made 1918
 Registered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Coy of Scotland
 (Letter for record (S)) Total Heating Surface of Boilers 1347 29 ft. Is forced draft fitted no No. and Description of Boilers One Single Ended
 Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 8/5/18
 No. of Certificate 14267 Can each boiler be worked separately One Area of fire grate in each boiler 395 24 ft. No. and Description of safety valves to each boiler _____
 Area of each valve _____ Pressure to which they are adjusted _____

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler _____
 Distance between boilers or uptakes and bunkers or woodwork _____
 Material of shell plates Steel Thickness 1 1/2 Range of tensile strength 28/32 Are the shell plates welded or flanged no
 Strip of riveting: cir. seams Lap & R long. seams Tip Riv. Butts Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 7/8
 Width of butt straps 16 1/4 Per centages of strength of longitudinal joint _____ Working pressure of shell by _____

No. and Description of Furnaces in each _____
 Size of manhole in shell 16" x 12" Size of compensating ring 8" x 1"
 Material Steel Outside diameter 3' 0 1/2 Length of plain part _____ Thickness of plates 3 3/4
 Description of longitudinal joint held No. of strengthening rings 2 Working pressure of furnace by the rules 189 lbs Combustion chamber _____
 Material Steel Thickness: Sides 7/8 Back 7/8 Top 7/8 Bottom 7/8 Pitch of stays to ditto: Sides 9" x 8" Back 9" x 8"
 If stays are fitted with nuts or riveted heads no Working pressure by rules 186 lbs Material of stays Steel Diameter at _____

Area supported by each stay 173 24 in. Working pressure by rules 190 lbs End plates in steam space: Material Steel Thickness 1 1/2
 of stays 18" x 18" How are stays secured Stays drawn Working pressure by rules 185 lbs Material of stays Steel Diameter at smallest part 6 1/4 in.
 supported by each stay 374 24 in. Working pressure by rules 185 lbs Material of Front plates at bottom Steel Thickness 1" Material of back plate Steel
 Thickness 7/16 Greatest pitch of stays 1 1/4 x 8" Working pressure of plate by rule 260 lbs Diameter of tubes 3 1/2
 of tubes 4 1/2 x 4 3/4 Material of tube plates Steel Thickness: Front 1" Back 7/16 Mean pitch of stays 10 1/4 Pitch across wide spaces _____

Working pressures by rules 182 lbs Girders to Chamber tops: Material Steel Depth and thickness of _____
 at centre 7 1/4 x 7 1/8 x 2 Length as per rule 28 1/2 Distance apart 9 1/2 Number and pitch of Stays in each 1 in at 8 1/2
 ng pressure by rules 180 lbs Superheater or Steam chest; how connected to boiler _____ Can the superheater be shut off and the boiler worked _____
 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 _____
 ned with rings _____ Distance between rings _____ Working pressure by rules _____ End plates: Thickness _____ How stayed _____
 ng pressure of end plates _____ Area of safety valves to superheater _____ Are they fitted with easing gear _____

The foregoing is a correct description,
 For JAMES NEILSON & SON, Ltd
 Manufacturer.

request form _____
 002 attached _____
 Is the approved plan of boiler forwarded herewith Yes
 During progress of work in shops: 1917 Sep 13-14-21-25-28 Oct 2-5-11-16-17-19-22-24-29 Nov 5-8-14-16 Is the approved plan of boiler forwarded herewith _____
 During erection on board vessel: 1918 Jan 10-14-23 Feb 5-6-11-14-21-23-28 Mar 4-11-13-15-20-22-26-28 Apr 3-6-9 Total No. of visits 63

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler has been built under
al survey. The workmanship and material is good.
boiler is being sent to Chester.

Expenses (if any) £ 6 : 2 : _____
 When applied for, 19/7/18 _____
 When received, 25/7/18 _____
 J. M. McGeor.
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.