

REPORT ON BOILERS.

No. 257

Received at London Office

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Report 17/8/1917 When handed in at Local Office 17/8/1917 Port of Sheffield
 Survey held at Oldbury Date, First Survey 12.2.17 Last Survey 3-8-1917
 (Number of Visits 9) Gross 4215
 on the Donkey Boiler No. 1173 S.S. Assicut Tons Net 2633
 Built at Ladbury By whom built North of Ireland S.B. & Co When built 1918
 made at Oldbury By whom made North of Ireland S.B. & Co When made 1917
 Owners Moss Steamship Coy Ltd Port belonging to Liverpool

TUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel East Kent Sheffield 15.1'

Total Heating Surface of Boilers 920 sq ft Is forced draft fitted No No. and Description of
Multi-tubular Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 3-8-17
 Certificate 374 Can each boiler be worked separately Yes Area of fire grate in each boiler 29 sq ft No. and Description of
 tubes to each boiler Two Direct Spring Area of each valve 4.91 sq ft Pressure to which they are adjusted 100 lbs
 fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No
 distance between boilers or uptakes and bunkers or woodwork On Deck Mean dia. of boilers 10' 6" Length 10' 0"
 of shell plates Steel Thickness 5/8" Range of tensile strength 27,52 Are the shell plates welded or flanged No
 of riveting: cir. seams Lap, Single long. seams D.B.S. butt in Diameter of rivet holes in long. seams 4 1/2" Pitch of rivets 3 5/8"
 plates or width of butt straps 9 1/2" Per centages of strength of longitudinal joint rivets 87% Working pressure of shell by
 plate 74%
 Size of manhole in shell 16" x 12" Size of compensating ring 16" keel type No. and Description of Furnaces in each
two, plain Material Steel Outside diameter 3' 1" Length of plain part 7' 0" Thickness of plates 9 1/2"
 crown 9 1/2"
 bottom 9 1/2"
 of longitudinal joint welded No. of strengthening rings - Working pressure of furnace by the rules 112 lbs Combustion chamber
 Material Steel Thickness: Sides 1/2" Back 9/16" Top 1/2" Bottom 3/8" Pitch of stays to ditto: Sides 9 x 7" Back 10 1/2 x 9"
 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 106 lbs Material of stays Steel Diameter at
 part 1 1/2 x 1 1/2" Area supported by each stay 9 1/2 x 16" Working pressure by rules 157 lbs End plates in steam space: Material Steel Thickness 7/8"
 stays 20 1/2 x 1 1/2" How are stays secured D.N.P.W. Working pressure by rules 120 lbs Material of stays Steel Diameter at smallest part 3.43
 supported by each stay 276" Working pressure by rules 130 lbs Material of Front plates at bottom Steel Thickness 1 1/2" Material of
 back plate Steel Thickness 5/8" Greatest pitch of stays 14 x 12" Working pressure of plate by rules 109 lbs Diameter of tubes 3 1/2"
 of tubes 4 5/8" Material of tube plates Steel Thickness: Front 3 3/8" Back 5/8" Mean pitch of stays 10 3/8" Pitch across wide
 spaces 13 1/2" Working pressures by rules 100 lbs Girders to Chamber tops: Material Steel Depth and thickness of
 at centre 6" x 1 1/4" Length as per rule 2' 2" Distance apart 8 1/2" Number and pitch of Stays in each Two, 7"
 g pressure by rules 123 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 -
 end with rings - Distance between rings - Working pressure by rules - End plates: Thickness - How stayed -
 g pressure of end plates - Area of safety valves to superheater - Are they fitted with easing gear -

The foregoing is a correct description,
F. J. Danks Manufacturer.

During progress of work in shops - - - 12/2. 22/2. 1/3. 4/4. 24/4. 14/5. 31/5. 27/6. 10/7. 9/7
 Is the approved plan of boiler forwarded herewith Yes
 Total No. of visits Nine

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been
built under special survey, the material tested in accordance
with the Rules and the workmanship is good.
The boiler is intended for the North of Ireland S.B. & Co.

Survey Fee ... £ 2 : 2/ :
 Travelling Expenses (if any) £ 3 : 3/3 :
 When applied for, Aug 17th 1917
 When received, 10.10.1917

P. L. Morton
 Engineer Surveyor to Lloyd's Register of Shipping

FRI. 10 JAN. 1919 FRI. 14 FEB. 1919

