

REPORT ON BOILERS.

No. 40065.

WED JUN 23 1920

5a.

Received at London Office
 Writing Report 191 When handed in at Local Office 19.6.1920 Port of Glasgow
 Date, First Survey 10 June 1920
 Last Survey 10 June 1920
 (Number of Visits) Gross 9751
 Tons Net 6205
 When built 1920
 Survey held at Glasgow
 on the Single ended Boilers SS MANGALORE
 Built at Glasgow By whom built E Connell & Co
 When made 1919
 es made at Manchester By whom made Metropolitan Vickers
 When made 1920
 s made at Glasgow By whom made D Dowan & Co Ltd
 Port belonging to Liverpool
 (Owners) J. J. Brocklebank Ltd
 Rated Horse Power

LTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel SE 6680 ft Is forced draft fitted No. and Description of
 for record (7) Total Heating Surface of Boilers 6680 ft Is forced draft fitted No. and Description of
 2 Single ended Working Pressure 200 Tested by hydraulic pressure to 350 Date of test 28.1.20
 of Certificate 15066 Can each boiler be worked separately Yes Area of fire grate in each boiler 70 ft No. and Description of
 valves to each boiler 2 Spring loaded Area of each valve 7.07 sq ft Pressure to which they are adjusted 20.5 lb
 they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler
 test distance between boilers or uptakes and bunkers or woodwork 1-6 ft Mean dia. of boilers 17-6 ft Length 12.0 ft
 Serial of shell plates Steel Thickness 176 Range of tensile strength 30.6-34.6 tons Are the shell plates welded or flanged No
 rip. of riveting: cir. seams 60 lb long. seams + R.P.B.S Diameter of rivet holes in long. seams 1 1/2 inch Pitch of rivets 10 1/2 inch
 of plates or width of butt straps 22 1/4 Per centages of strength of longitudinal joint rivets 88.2 Working pressure of shell by
 200 Size of manhole in shell 19 1/2 x 15 1/2 Size of compensating ring 30 1/2 x 2-8 1/2 No. and Description of Furnaces in each
 4 corrugated Material Steel Outside diameter 3-10 1/4 Length of plain part top - Thickness of plates crown 5 inch bottom 8 inch
 ription of longitudinal joint Welded No. of strengthening rings Working pressure of furnace by the rules 217 Combustion chamber
 s: Material Steel Thickness: Sides 23 inch Back 21 inch Top 23 inch Bottom 23 inch Pitch of stays to ditto: Sides 9 3/4 inch Back 9 1/2 inch
 2 1/2 x 10 1/8 If stays are fitted with nuts or riveted heads Int. Working pressure by rules 200 Material of stays Iron Area at
 test part 2.07 Area supported by each stay 89 Working pressure by rules 202 End plates in steam space: Material Steel Thickness 1 1/2 inch
 h of stays 18 1/2 x 18 How are stays secured do Working pressure by rules 200 Material of stays Steel Area at smallest part 7.06
 supported by each stay 341 Working pressure by rules 210 Material of Front plates at bottom Steel Thickness 8 inch Material of
 er back plate Steel Thickness 32 inch Greatest pitch of stays 13 3/8 Working pressure of plate by rules 201 Diameter of tubes 3 inch
 h of tubes 4 1/4 x 4 1/8 Material of tube plates Steel Thickness: Front 1 inch Back 1 1/8 inch Mean pitch of stays 10 1/2 inch Pitch across wide
 r spaces 13 7/8 Working pressures by rules 210 Girders to Chamber tops: Material Steel Depth and thickness of
 er at centre 11 1/2 x 7 1/8 (2) Length as per rule 40 3/4 Distance apart 9 3/4 Number and pitch of Stays in each 3-9 1/8
 Working pressure by rules 210 Steam dome: description of joint to shell None % of strength of joint
 meter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 h of rivets Working pressure of shell by rules Crown plates Thickness How stayed

ERHEATER. Type None Date of Approval of Plan Tested by Hydraulic Pressure to
 of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,

David Rowan & Co Ltd Manufacturer.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits

See accompanying Machinery Report.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

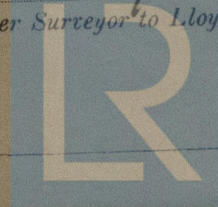
The Boilers have been built under Special Survey. Materials and workmanship are good, the Boilers have been satisfactorily fitted to the vessel.

Survey Fee ... £ ... When applied for, 191
 Travelling Expenses (if any) £ ... When received, 191

Committee's Minute GLASGOW 22 JUN 1920

signed See attached machinery report

James Easton, Thos. Murray
 Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation

W 432-0209