

REPORT ON BOILERS.

No. 25140
TUES. APL 23 1907

Port of Glasgow Received at London Office
 No. in Survey held at Glasgow Date, first Survey 27 Dec '06 Last Survey 3 April 1907
 Reg. Book. S.S. "Ruth" (unclassified) (Number of Visits) 1 Gross Tons 1907
 on the S.S. "Ruth" (unclassified) Net Tons 1907
 Master Bowling By whom built Scott & Sons When built 1907
 Engines made at Glasgow By whom made Ross & Duncan (No 709) when made 1907
 Boilers made at Glasgow By whom made Ross & Duncan (No 1124) when made 1907
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel David Colville & Sons Ltd
 (Letter for record S.) Total Heating Surface of Boilers 725.8 Is forced draft fitted No. and Description of Boilers one single ended Working Pressure 125 lb Tested by hydraulic pressure to 250 lb Date of test 3.4.07
 No. of Certificate 8849 Can each boiler be worked separately Area of fire grate in each boiler 30 No. and Description of safety valves to each boiler Area of each valve Pressure to which they are adjusted
 Are they fitted with easing gear 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 Mean dia. of boilers 10' 0" Length 9' 0"
 Material of shell plates steel Thickness 21/32" Range of tensile strength 28/32 tons Are the shell plates welded or flanged O.B.S.
 Descrip. of riveting: cir. seams D. Riv. long. seams D.R. O.B.S. Diameter of rivet holes in long. seams 7/8" Pitch of rivets 4 3/4"
 Lap of plates or width of butt straps 9 1/4" Per centages of strength of longitudinal joint rivets 85.9% Working pressure of shell by rules 127 lb Size of manhole in shell 16" x 12" Size of compensating ring 6 1/2" x 21/32" No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 39" Length of plain part 66" Thickness of plates 19/32"
 Description of longitudinal joint weld No. of strengthening rings none Working pressure of furnace by the rules 125 lb Combustion chamber plates: Material steel Thickness: Sides 7/32" Back 7/32" Top 7/32" Bottom 25/32" Pitch of stays to ditto: Sides 8 1/2" x 8" Back 8 1/4" x 7 3/4" Top 8 1/2" x 7 1/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 127 lb Material of stays steel Diameter at smallest part 1 1/4" Area supported by each stay 68" Working pressure by rules 45 lb End plates in steam space: Material steel Thickness 3/4" Pitch of stays 14 1/2" x 14" How are stays secured O.N. wash Working pressure by rules 131 lb Material of stays steel Diameter at smallest part 2 6/16" Area supported by each stay 203" Working pressure by rules 136 lb Material of Front plates at bottom steel Thickness 3/4" Material of Lower back plate steel Thickness 3/4" Greatest pitch of stays 13" x 7 3/4" Working pressure of plate by rules 169 lb Diameter of tubes 3 1/4" Pitch of tubes 4 3/8" x 4 1/4" Material of tube plates steel Thickness: Front 3/4" Back 5/8" Mean pitch of stays 10 3/32" Pitch across wide water spaces 14" Working pressures by rules 139 lb Girders to Chamber tops: Material iron Depth and thickness of girder at centre 6" x 1 1/2" Length as per rule 26 27/32" Distance apart 7 1/4" Number and pitch of Stays in each 2 @ 8 1/2" Working pressure by rules 135 lb Superheater or Steam chest: how connected to boiler 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

VERTICAL DONKEY BOILER—No. Description Manufacturers of steel
 Made at By whom made When made Where fixed Working pressure
 tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves
 No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets
 Lap of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace
 Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown plates Radius of do. Stayed by Diameter of uptake Thickness of uptake plates
 Thickness of water tubes

The foregoing is a correct description.

Ross & Duncan power engineers, Manufacturer.

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - -
 Total No. of visits 7

Is the approved plan of main boiler forwarded herewith no.

donkey

© 2020

Lloyd's Register
Foundation

W1121-0332

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

This boiler has been built under special survey: the material and workmanship being good: and satisfactorily tested under hydraulic pressure. It is a duplicate of boiler No 1153; plan of which has been forwarded.

As this boiler is stated to be intended for an Unclassed Vessel, it is submitted that no further action need be taken on above Report.

J.S.M.
26/4/07

J.S.
26.4.07

Certificate (if required) to be sent to the Committee's Minute.

The amount of Entry Fee...	£	:	:	When applied for,
Special ...	£	:	:	22 APR 1907
Donkey Boiler Fee ...	£	:	:	When received,
Travelling Expenses (if any) £	£	:	:	26/4/07

25.4.07 A. S. Thomas.

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Glasgow 22 APR 1907

Assigned

Transmit to London



© 2020

Lloyd's Register
Foundation