

REPORT ON BOILERS.

No. 8970.

Date of writing Report

191

When handed in at Local Office

191

Port of

Received at London Office

JUL 2 OCT. 1923

No. in Survey held at
Reg. Book.

on the

Steel Y S S "Moottan"

Date, First Survey

Last Survey

191

(Number of Visits)

Tons

Gross 2084 1/2
Net 1283 1/2

Master

Built at

Belfast

By whom built

Harland & Wolff Ltd

When built

1923

Engines made at

Belfast

By whom made

Harland & Wolff Ltd

When made

1923

Boilers made at

Belfast

By whom made

Harland & Wolff Ltd

When made

1923

Registered Horse Power

✓

Owners

Peninsular & Oriental Steam Navigation Co. Port belonging to

Belfast.

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~—Manufacturers of Steel David Colvill & Sons Ltd.

(Letter for record S) Total Heating Surface of Boilers 35 244 1/2 Is forced draft fitted Yes No. and Description of

Boilers 6 Double ended Cylindrical Working Pressure 215 lbs. Tested by hydraulic pressure to 343 lbs. Date of test 5-4-23

No. of Certificate 814 3/4 Can each boiler be worked separately Yes Area of fire grate in each boiler 146.54 No. and Description of

safety valves to each boiler 4 Spring loaded in each Area of each valve 9.62 Pitch of rivets 10 1/2

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ✓

Smallest distance between uptakes and bunkers or woodwork 20" Mean dia. of boilers 16'-6" Length 20'-0"

Material of shell plates Steel Thickness 1 1/2" Range of tensile strength 30 to 33 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams Ends P.R. long. seams T.R. D.B.S. Diameter of rivet holes in long. seams 1 9/16" Pitch of rivets 10 1/2"

width of butt straps 1'-11" Per centages of strength of longitudinal joint rivets 84.6 Working pressure of shell by

rules 224 lbs Size of manhole in shell 16" x 12" Size of compensating ring 2 @ 36" x 32" x 1 1/4" No. and Description of Furnaces in each

boiler 8 Corrugated Material Steel Outside diameter 3'-4 1/2" Length of plain part top ✓ Thickness of plates crown 5/8"

Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 226.5 Combustion chamber

plates: Material Steel Thickness: Sides 3/32" Back ✓ Top 3/32" Bottom 3/4" Pitch of stays to ditto: Sides 8" x 8" Back ✓

Top 4" x 8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 239 lbs Material of stays Steel Area at

smallest part 12 1/2" Area supported by each stay 65" Working pressure by rules 234 lbs End plates in steam space: Material Steel Thickness 1"

Pitch of stays 15 x 16 1/2 How are stays secured P.N. Wash Working pressure by rules 226.5 Material of stays Steel Area at smallest part 5.05

Area supported by each stay 244" Working pressure by rules 222 lbs Material of Front plates at bottom Steel Thickness 7/8" Material of

Lower back plate Thickness ✓ Greatest pitch of stays ✓ Working pressure of plate by rules ✓ Diameter of tubes 23 1/4"

Pitch of tubes 8" x 8 1/2" Material of tube plates Steel Thickness: Front 7/8" Back 13/16" Mean pitch of stays 9" Pitch across wide

water spaces 13 3/4" Working pressures by rules 254 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 2 @ 8" x 8" Length as per rule 1' 2 1/8" Distance apart 4 1/4", 8", 9" Number and pitch of Stays in each 6 @ 9 1/4"

Working pressure by rules 359 lbs Steam dome: description of joint to shell ✓ % of strength of joint ✓

Diameter ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓

Pitch of rivets ✓ Working pressure of shell by rules ✓ Crown plates ✓ Thickness ✓ How stayed ✓

SUPERHEATER. Type Tubular. 15" M. BORE x 3" M. THK. 13.2.22 Tested by Hydraulic Pressure to 430 lbs.

Date of Test 11.5.23, 14.5.23 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes

Diameter of Safety Valve 2" Pressure to which each is adjusted 220 lbs Is Easing Gear fitted Yes

The foregoing is a correct description,
FOR HARLAND & WOLFF LTD.

J. E. Hebbel Manufacturer.

Dates of Survey
During progress of work in shops - -
while building During erection on board vessel - -

Is the approved plan of boiler forwarded herewith

Total No. of visits

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

These Boilers have been built under Special Survey, Materials & Workmanship good. Hydraulic tests satisfactory.

Survey Fee ... £

When applied for, 191

Travelling Expenses (if any) £

When received, 191

Committee's Minute

FRI. 19 OCT. 1923

Assigned

William R. P. 2021
Engineer Surveyor to Lloyd's Register of Shipping.Lloyd's Register
W1650-0384