

REPORT ON BOILERS.

No. 27823.

Received at London Office

1. AUG. 14. 1914

Date of writing Report 1914 When handed in at Local Office 16-8-1914 Port of Hull
 No. in Survey held at Hull Date, First Survey 16-8-13. Last Survey 16-7-1914
 Reg. Book. 308 on the Centre boiler for s.s. Flaminian (Number of Visits) Gross Tons Net
 Master Built at Hull By whom built Charles E. L. When built 1914-7
 Engines made at Hull By whom made Charles E. L. When made 1914-7
 Boilers made at Hull By whom made Charles E. L. When made 1914-7
 Registered Horse Power Owners Fleuman Lines Ltd Port belonging to

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel D. Colville & Sons
 (Letter for record 5) Total Heating Surface of Boilers 5146 ft^2 Is forced draft fitted yes No. and Description of Boilers Three single ended Working Pressure 220 Tested by hydraulic pressure to 440 Date of test 5-6-14

No. of Certificate 2094 Can each boiler be worked separately yes Area of fire grate in each boiler 65.403 ft^2 No. and Description of safety valves to each boiler Two spring loaded Area of each valve 4.9 ft^2 Pressure to which they are adjusted 222 lbs.

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 10" air casing dia. of boilers 15 1/2" Length 12'-4"

Material of shell plates steel Thickness 1 1/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams double long. seams J.R.D.B. Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 9 7/8"

Top of plates on width of butt straps 2 1/8" Per centages of strength of longitudinal joint rivets 85.44 Working pressure of shell by rules 254 Size of manhole in shell 12" x 16" Size of compensating ring 8 1/2" x 1 1/32 No. and Description of Furnaces in each boiler Two single material S Outside diameter 47 1/4" Length of plain part top 23 1/2" Thickness of plates crown 23 1/2" bottom 23 1/2"

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 253 Combustion chamber plates: Material steel Thickness: Sides 3/4" Back 23/32 Top 3/4" Bottom 1 1/8" Pitch of stays to ditto: Sides 9" x 8 1/2" Back 9" x 8 1/2"

Top 9 1/4" x 8 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 244 Material of stays steel Diameter at smallest part 2 1/4" Area supported by each stay 91 ft^2 Working pressure by rules 237 End plates in steam space: Material S Thickness 1 1/4"

Pitch of stays 18 1/2" x 1 1/8" How are stays secured R. H. Working pressure by rules 233 Material of stays steel Diameter at smallest part 7.39"

Area supported by each stay 298 ft^2 Working pressure by rules 258 Material of Front plates at bottom steel Thickness 3/32 Material of Lower back plate steel Thickness 3 1/32 Greatest pitch of stays 14 1/2" x 8 1/2" Working pressure of plate by rules 235 Diameter of tubes 2 1/2"

Pitch of tubes 3 1/2" x 3 1/8" Material of tube plates S Thickness: Front 3 1/32 Back 7/8" Mean pitch of stays 7 3/4" Pitch across wide water spaces 13" Working pressures by rules 242 lbs. Girders to Chamber tops: Material steel Depth and thickness of girder at centre 10 9/16" x 1 3/4" Length as per rule 36 1/32 Distance apart 9 1/4" Number and pitch of Stays in each Three 8 1/2"

Working pressure by rules 224 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

The foregoing is a correct description. Manufacturer.

Dates of Survey During progress of work in shops - - - See 1st Entry Machy Rpt. Is the approved plan of boiler forwarded herewith yes

while building During erection on board vessel - - - Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Boiler has been constructed under special survey, in accordance with the approved plan rules of this society, the materials & workmanship are good on completion it was tested by hydraulic pressure as above.

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

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

Committee's Minute

Assigned

TUE. AUG. 18. 1914

Lloyd's Register
 Foundation