

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 Hull Built at Hull By whom built Charles Co Ltd When built 1914-7

Engines made at Hull By whom made Charles Co Ltd When made 1914-7

Boilers made at Hull By whom made Charles Co Ltd When made 1914-7

Registered Horse Power Hull Owners Fluerman 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 ~~#~~ 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 No. and Description of safety valves to each boiler Two spring loaded Area of each valve 4.9 ~~sq in~~ 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 no

Smallest distance between ~~boilers~~ 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.A.B.1 Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 9 7/8

Per centages of strength of longitudinal joint 85.44 Working pressure of shell by rules 254 rivets 86.8

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 23 1/2" Thickness of plates 23 1/2"

Description of longitudinal joint welded No. of strengthening rings 1 Working pressure of furnace by the rules 253 Combustion chamber plates: Material steel Thickness: Sides 3/4" Back 23 1/32" 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 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 Q.T. Working pressure by rules 233 Material of stays steel Diameter at smallest part 7.39

Area supported by each stay 298 Working pressure by rules 258 Material of Front plates at bottom steel Thickness 3 1/32" Material of Lower back plate steel Thickness 3 1/32" Greatest pitch of stays 14 1/2" x 8 1/8" 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 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 no Can the superheater be shut off and the boiler worked separately no Diameter no Length no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet holes no Pitch of rivets no Working pressure of shell by rules no Diameter of flue no Material of flue plates no Thickness no

If stiffened with rings no Distance between rings no Working pressure by rules no End plates: Thickness no How stayed no

Working pressure of end plates no Area of safety valves to superheater no Are they fitted with easing gear no

The foregoing is a correct description.

Richardson Manufacturer.

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

while building: During erection on board vessel no Total No. of visits 1

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 ... £ 191 When applied for, ... 191

Travelling Expenses (if any) £ 191 When received, ... 191

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

TUE. AUG. 18. 1914

Committee's Minute

Assigned

