

REPORT ON BOILERS.

No. 84041

Received at London Office 29 FEB 1924

Date of writing Report 1921 When handed in at Local Office 1921 Port of *Swansea*

No. in Survey held at *Kings Lynn* Date, First Survey Last Survey 1921

Reg. Book. *S. S. Emlynton* (Number of Visits) Gross Tons Net

on the *S. S. Emlynton*

Master Built at *Louth* By whom built *J. Blamye & Co. Ltd.* When built *1921*

Engines made at *South Shields* By whom made *J. T. Gray & Co. Ltd.* When made *1921*

Boilers made at *Kings Lynn* By whom made *Dodman & Co.* When made *1921*

Registered Horse Power Owners Port belonging to *Cardiff*

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

(Letter for record) Total Heating Surface of Boilers Is forced draft fitted No. and Description of Boilers

Working Pressure Tested by hydraulic pressure to Date of test

No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler 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 Mean dia. of boilers Length

Material of shell plates Thickness Range of tensile strength Are the shell plates welded or flanged

Descrip. of riveting: cir. seams long. seams Diameter of rivet holes in long. seams Pitch of rivets

Lap of plates or width of butt straps Per centages of strength of longitudinal joint Working pressure of shell by rules

Size of manhole in shell Size of compensating ring No. and Description of Furnaces in each boiler

Material Outside diameter Length of plain part Thickness of plates

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

plates: Material Thickness: Sides Back Top Bottom Pitch of stays to ditto: Sides Back

Top If stays are fitted with nuts or riveted heads Working pressure by rules Material of stays Area at smallest part

Area supported by each stay Working pressure by rules End plates in steam space: Material Thickness

Pitch of stays How are stays secured Working pressure by rules Material of stays Area at smallest part

Area supported by each stay Working pressure by rules Material of Front plates at bottom Thickness Material of Lower back plate

Thickness Greatest pitch of stays Working pressure of plate by rules Diameter of tubes

Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays Pitch across wide water spaces

Working pressures by rules Girders to Chamber tops: Material Depth and thickness of girder at centre

Length as per rule Distance apart Number and pitch of Stays in each

Working pressure by rules 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

UPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

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

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

VERTICAL DONKEY BOILER No. *one* Description *Vertical cross tube* Manufacturers of steel *Colville*

Made at *Kings Lynn* By whom made *Dodman & Co. Ltd.* When made *1921* Where fixed *Shorehold* Working pressure *100 lb*

Tested by hydraulic pressure to *200 lb* Date of test *20-11-20* No. of Certificate *220* Fire grate area *176* Description of safety valves *Spring loaded*

No. of safety valves *one* Area of each *9.42* Pressure to which they are adjusted *100 lb* If fitted with easing gear *Yes* If steam from main boilers can enter the donkey boiler *No*

Dia. of donkey boiler *5'-6"* Length *10'-0"* Material of shell plates *Steel* Thickness *1/2"* Range of tensile strength *3 1/2 tons*

Descrip. of riveting long. seams *T. R. Lap.* Dia. of rivet holes *13/16"* Whether punched or drilled *Drilled* Pitch of rivets *3 1/4"*

Lap of plating *5/8"* Per centage of strength of joint Rivets *75* Plates *100* Working pressure of shell by rules *102 lb* Thickness of shell crown plates *1/2"*

Radius of do. *Flat* No. of Stays to do. *8* Dia. of stays *1 3/4"* Diameter of furnace Top *4'-6"* Bottom *4'-11"* Length of furnace *5'-0"*

Thickness of furnace plates *1/2"* Description of joint *S. R. Lap.* Working pressure of furnace by rules *108 lb* Thickness of furnace crown plates *1/2"*

Radius of do. *Flat* Stayed by *8, 1 3/4" Stays* Diameter of uptake *15"* Thickness of uptake plates *1/8"*

Thickness of water tubes

The foregoing is a correct description,
For ALFRED DODMAN & Co. Ltd. Manufacturer.

Dates of Survey { During progress of work in shops - - } 1920: June 1-18 Sept 13 Oct 5-27 Nov 25

{ During erection on board vessel - - }

building { Total No. of visits 4 }

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

Lloyd's Register
Foundation
W542 0021

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

This boiler has been built under special survey, in accordance with the approved plans & Society's rules, on completion was tested by hydraulic pressure & found satisfactory. The workmanship and materials are good.

After being installed in the vessel, examined under steam the safety valves adjusted to 100 lbs. per sq. inch.

Date of writing Report

No. in Survey held at
Reg. Book.
on the *Miss*

Master

Engines made at *1. 1st*Boilers made at *1st*

Registered Horse Power

MULTITUBULAR

(Letter for record *S*)Boilers *on single*No. of Certificate *368*

safety valves to each boiler

Are they fitted with easing

Smallest distance between

Material of shell plates

Descrip. of riveting: cir.

Lap of plates or width of

rules *182* Sizeboiler *3 Doughty's*

Description of longitudinal

plates: Material *S*Top *9 + 9 1/4* If stays aresmallest part *2.03* AreaPitch of stays *22 + 17 1/2*

Area supported by each stay

lower back plate *S*Pitch of tubes *4 1/2 x 4 3/8*water spaces *14 1/4*order at centre *7 3/8 + 1*

Working pressure by rules

diameter Thic

pitch of rivets

PERHEATER.

ile of Test

iameter of Safety Valve

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

GENERAL REMA

*This boiler**are found**engine no 60*

Survey Fee ...

Travelling Expenses (if

The amount of Entry Fee .. £ : : When Applied for,
Special £ *4* : *4* : *19 11 19 11*
Donkey Boiler Fee £ : : When received,
Travelling Expenses (if any) £ *1* : *16* : *24 5 19 21*

Committee's Minute

Assigned

See minute on Nov 73068

A. G. Farminer + Robert Rae
Engineer Surveyor to Lloyd's Register of Shipping



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Lloyd's Register
Foundation

Committee's Minute
signed