

REPORT ON BOILERS.

No. 84041

Received at London Office 29 FEB 1924

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

No. in Survey held at Kings Lynn. Date, First Survey _____ Last Survey _____ 191

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

Master _____ Built at Louisa By whom built J. Blamye & Co. Ltd. When built 1921

Engines made at South Shields By whom made G. 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 Collywell

Made at Kings Lynn By whom made Dodman & Co. Ltd. When made 1921 Where fixed Stokehold. 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 28 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 5/8" Per centage of strength of joint _____ Rivets _____ Plates _____ 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 lbs 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

while building board vessel - - -

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 Master
Engines made at
Boiler made at
Registered Horse Power

MULTITUBULAR

(Letter for record
Boilers
No. of Certificate
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
boiler
Description of longitudinal
plates: Material
Top
smallest part
Pitch of stays
Area supported by each s
lower back plate
Pitch of tubes
water spaces
order at centre
Working pressure by rule
iameter
Thic
itch of rivets
PERHEATER.
le of Test
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Dates
Survey
chile
ilding

GENERAL REMA

This boiler
are found
engine no 60

Survey Fee
Travelling Expenses (if

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

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

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

Committee's Minute

FRI. 25 FEB. 1921

Assigned

See minute on No 73568



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Lloyd's Register
Foundation
Committee's Minute
signed See