

REPORT ON BOILERS.

No. 84137.

Received at London Office 21 MAR 1921

Date of writing Report 21 MAR 1921 When handed in at Local Office 21 MAR 1921

No. in Survey held at Kings Lynn Date, First Survey 1st June 1920 Last Survey 20th Jan 1921

Reg. Book. S. S. "Port Lania" (Number of Visits 8) Gross 700.10 Tons Net

Master Built at Lowestoft By whom built J. Chambers Ltd When built 1921

Engines made at South Shields By whom made J. T. Grey & Co When made 1920

Boilers made at Sunderland By whom made G. Black & Co Ltd When made 1920

Registered Horse Power Owners R. Mc Neil & Co Ltd 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 rivets Working pressure of shell by plate

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 top Thickness of plates crown bottom

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

SUPERHEATER. 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. 11348 Description Tubular cross tube Manufacturers of steel Bellville & Co Ltd.

Made at Kings Lynn By whom made Dodman & Co Ltd When made 1921 Where fixed Stoke Newington Working pressure 100 lb

Tested by hydraulic pressure 100 lb Date of test 20-1-21 No. of Certificate 228 Fire grate area 17.6 sq ft Description of safety valves Spring loaded

No. of safety valves one Area of 7.06 sq ft 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 13/32" Range of tensile

Strength 28/32 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 75/100 Working pressure of shell by rules 102 lb Thickness of shell crown plates 13/32"

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

Thickness of furnace plates 13/32" Description of joint S.P. lap Working pressure of furnace by rules 108 lb Thickness of furnace crown

Plates 13/32" Radius of do. Flat Stayed by 8. 1 1/4 stays Diameter of uptake 15" 1/2 Thickness of uptake plates 7/8

Thickness of water tubes 3/8"

The foregoing is a correct description,

ALFRED DODMAN & CO. LTD Manufacturer.

Dates During progress of work in shops 1920: June 1-18 Sep 1-13

Survey while building During erection on board vessel Nov 25-30 1921 Jan 13-20.

Total No. of visits 8

Is the approved plan of main boiler forwarded herewith

" " " donkey " "

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

This boiler has been built under Special Survey the materials & workmanship are good. On completion was tested by hydraulic pressure with satisfactory results.

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 £	:	:	21 st Dec 1921
Donkey Boiler Fee £	4	4	When received.
Travelling Expenses (if any)	£	2	1	24-5-21

Committee's Minute

Assigned

1 HU. MAR. 24 1921

A. E. Salmeron
Engineer Surveyor to Lloyd's Register of Shipping



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