

REPORT ON BOILERS

No. 84137

MAR 1921

Received at London Office
 Date of writing Report **21 MAR 1921** When handed in at Local Office **21 MAR 1921** Port of **(Goswick) London**
 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 }
 on the **S.S. "Port Lania"** Net
 Master **Louise** Built at **Lonsdale** 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. Clark & 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** **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**

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 **Sollitt & 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 **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 **98/32 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 1/8"** Per centage of strength of joint **75** 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**

Asky Crisp
 Is the approved plan of main boiler forwarded herewith
 " " " donkey " "



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.

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

Committee's Minute

Assigned

THU. MAR. 24 1921

A. E. Farmer

Engineer Surveyor to Lloyd's Register of Shipping



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