

REPORT ON BOILERS.

No. 66141

Received at London Office

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Writing Report 191 When handed in at Local Office **MAY 25 1914** Port of **NEWCASTLE-ON-TYNE**
 Survey held at **South Shields** Date, First Survey **9th Jan 1914** Last Survey **21st May 1914**
 on the **S.S. LINKMOOR** (Number of Visits **35**) Gross **4305.89** Tons Net **2746.36**
 Built at **South Shields** By whom built **J. Readhead & Sons Ltd.** When built **1914**
 Made at **South Shields** By whom made **J. Readhead & Sons Ltd.** When made **1914**
 Made at **South Shields** By whom made **J. Readhead & Sons Ltd.** When made **1914**
 Indicated Horse Power **386** Owners **Moor Line Ltd. (W. Hunciman & Co)** Port belonging to **London**

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel **John Spence & Sons Ltd.**
 for record Total Heating Surface of Boilers **881 sq ft** Is forced draft fitted **No** No. and Description of Boilers **One S.E. Multitubular**
 Certificate **8646** Can each boiler be worked separately Working Pressure **100 lbs** Tested by hydraulic pressure to **200 lbs** Date of test **24.4.14**
 valves to each boiler **2 Spring loaded** Area of fire grate in each boiler **30 sq ft** No. and Description of valves **No. N.R.V.**
 they fitted with easing gear **Yes** Area of each valve **7.07 sq ft** Pressure to which they are adjusted **100 lbs**
 least distance between boilers or uptakes and bunkers or woodwork **On deck** Mean dia. of boilers **10'-0 3/32"** Length **10'-1"**
 Material of shell plates **Steel** Thickness **2 1/2"** Range of tensile strength **28/32 T.S.** Are the shell plates welded or flanged **No**
 Kind of riveting: cir. seams **D.R. Lap.** long. seams **D.R. Lap.** Diameter of rivet holes in long. seams **1 1/8"** Pitch of rivets **4 1/4"**
 Kind of plates or width of butt straps **5 7/8"** Per centages of strength of longitudinal joint rivets **78.6** Working pressure of shell by plate **69.8**
 Size of manhole in shell **12" x 16"** Size of compensating ring **8" x 3 1/2"** No. and Description of Furnaces in each boiler **2 Plain**
 Material **Steel** Outside diameter **3'-0"** Length of plain part top **6'-0"** Thickness of plates crown **1 1/2"** bottom **2 1/2"**
 Kind of longitudinal joint **S.R. Lap.** No. of strengthening rings **117** Working pressure of furnace by the rules **117** Combustion chamber
 Material **Steel** Thickness: Sides **1 1/2"** Back **1 1/2"** Top **1 1/2"** Bottom **2 1/2"** Pitch of stays to ditto: Sides **10" x 10"** Back **11" x 11"**
10" x 10" If stays are fitted with nuts or riveted heads **Nuts** Working pressure by rules **100** Material of stays **Iron** Diameter at
 least part **1.990"** Area supported by each stay **1210"** Working pressure by rules **123** End plates in steam space: Material **Steel** Thickness **1 3/16"**
 How are stays secured **DN + Donkey** Working pressure by rules **102** Material of stays **Steel** Diameter at smallest part **4.110"**
 Area supported by each stay **3600"** Working pressure by rules **118** Material of Front plates at bottom **Steel** Thickness **1/16"** Material of
 per back plate **Steel** Thickness **1/16"** Greatest pitch of stays **11" x 12"** Working pressure of plate by rules **123** Diameter of tubes **3 1/2"**
 Diameter of tubes **4 1/2"** Material of tube plates **Steel** Thickness: Front **1/16"** Back **1/16"** Mean pitch of stays **123** Pitch across wide
 end spaces **13 3/4"** Working pressures by rules **119** Girders to Chamber tops: Material **Steel** Depth and thickness of
 Diameter at centre **6 3/4" x 1 1/2"** Length as per rule **2'-2"** Distance apart **10"** Number and pitch of Stays in each **2-10"**
 Working pressure by rules **175** Superheater or Steam chest; how connected to boiler **None** Can the superheater be shut off and the boiler worked
 separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
 Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

VERTICAL DONKEY BOILER— No. Description Manufacturers of steel
 Made at By whom made When made Where fixed Working pressure
 Tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves
 No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can
 enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile
 strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets
 Kind of plating Per centage of strength of joint Rivets Plates Working pressure of shell by rules Thickness of shell crown plates
 Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace
 Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown
 plates Radius of do. Stayed by Diameter of uptake Thickness of uptake plates
 Thickness of water tubes

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - -
 Total No. of visits

See Machinery Report

The foregoing is a correct description,
J. M. Readhead Manufacturer.

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 constructed under special survey. The materials & workmanship are sound & good. It has been satisfactorily tested by hydraulic pressure & its safety valves adjusted under steam to their working pressure.

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 £	:	:19.....
Donkey Boiler Fee £	:	:	When received,
Travelling Expenses (if any) £	:	:19.....

R. Lee Ames.
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute FRI. MAY. 29. 1914

Assigned



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