

# REPORT ON BOILERS.

No. 66141

Received at London Office

TUE. MAY. 26. 1914

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 9<sup>th</sup> Jan 1914

Last Survey 21<sup>st</sup> May 1914

(Number of Visits 35)

Gross 4305.89

Net 2746.36

on the S.S. LINKMOOR

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

rated Horse Power 386

Owners Moor Line Ltd (W. Hunciman & Co) Port belonging to London

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons Ltd.

for record ) Total Heating Surface of Boilers 881 sq ft Is forced draft fitted No. and Description of

One S.E. Multitubular Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 24.4.14

Certificate 8646 Can each boiler be worked separately Area of fire grate in each boiler 30 sq ft No. and Description of

valves to each boiler 2 Spring loaded Area of each valve 7.07 sq ft Pressure to which they are adjusted 100 lbs

they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No. N.R.V.

Least distance between boilers or uptakes and bunkers or woodwork On deck Mean dia. of boilers 10'-0 3/4" Length 10'-1"

Material of shell plates Steel Thickness 3/32" Range of tensile strength 28,000 lbs Are the shell plates welded or flanged No

Direction of riveting: cir. seams S.R. Lap. long. seams S.R. Lap. Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 4 1/4"

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

100.8 Size of manhole in shell 12" x 16" Size of compensating ring 8" x 3 1/2" No. and Description of Furnaces in each

2 Plain Material Steel Outside diameter 3'-0" Length of plain part top 6'-0" Thickness of plates crown 7/16"

Description of longitudinal joint S.R. Lap. No. of strengthening rings Working pressure of furnace by the rules 117 Combustion chamber

Material Steel Thickness: Sides 1/8" Back 19/32" Top 19/32" 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 Steel 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"

h of stays 18" How are stays secured R.N. Donkey Working pressure by rules 102 Material of stays Steel Diameter at smallest part 4.110"

a 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"

h 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

er spaces 13 3/4" Working pressures by rules 119 Girders to Chamber tops: Material Steel Depth and thickness of

er 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

arately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

es 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

ade 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

Length Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Top of plating Per centage of strength of joint Rivets 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

JOHN READHEAD & SONS, LIMITED.

The foregoing is a correct description,

J. M. Readhead

Manufacturer.

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

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 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.....

Committee's Minute FRI. MAY. 29. 1914

Assigned

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



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