

## REPORT ON WATER TUBE BOILERS.

No. 57610

Received at London Office

28 OCT 1936

Date of writing Report

19

When handed in at Local Office

26. 10. 1936

Port of Glasgow

No. in  
Reg. Bk.

Survey held at

Glasgow

Date, First Survey

Last Survey

23-10-1936

on the

new steel S/S "IRON KING"

Number of Visits

Gross

Net

Master

Built at

Port Glasgow

By whom built

Lithgow Ltd (S/S 1930)

When built

1936

Engines made at

Glasgow

By whom made

Davie Rowan &amp; Co Ltd (Nº 993)

When made

1936

Boilers made at

Renfrew

By whom made

Babcock &amp; Wilcox Ltd

When made

1936

Registered Horse Power

414

Owners

Birken Hill Proprietary Co Ltd

Port belonging to

Melburne

## WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

(Letter for Record)

Date of Approval of plan

Number and Description or Type

of Boilers

Working Pressure

Tested by Hydraulic Pressure to

Date of Test

No. of Certificate

Can each boiler be worked separately

yes

Total Heating Surface of Boilers

Is forced draught fitted

yes

Area of fire grate (coal) in each Boiler

Total grate area of boilers in vessel including

Main and Auxiliary

183 sq ft

No. and type of burners (oil) in each boiler

coal burning

No and description of safety valves on

each boiler

Area of each valve

Pressure to which they are adjusted

255

Are they fitted with easing gear

yes

In case of donkey boilers state whether steam from main boilers can enter the donkey boiler

no DB

Smallest distance between boilers or uptakes and bunkers or woodwork

Height of Boiler

Width and Length

Steam Drums:—Number in each boiler

Inside diameter

Material of plates

Thickness

Range of Tensile Strength

Are drum shell plates welded or flanged

Description of riveting:—

Cir. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of Rivets

Lap of plate or width of butt straps

Thickness of straps

Percentage strength of long. joint:—Plate

Rivet

Diameter of tube holes in drum

Pitch of tube holes

Percentage strength of shell in way of tubes

If Drum has a flat side state method of staying

Depth and thickness of girders at centre

(if fitted)

Distance apart

Number and pitch of stays in each

Working pressure

by rules

Steam Drum Heads or Ends:—Material

Thickness

Radius or how stayed

Size of Manhole or Handhole

Water Drums:—Number in each boiler

Inside Diameter

Material of plates

Thickness

Range of tensile strength

Are drum shell plates welded

or flanged

Description of riveting:—Cir. seams

long. seams

Diameter of Rivet Holes in

long. seams

Pitch of rivets

Lap of plates or width of butt straps

Thickness of straps

Percentage strength of long. joint:—Plate

Rivet

Diameter of tube holes in drum

Pitch of tube holes

Percentage strength of drum shell in way of tubes

Water Drum Heads or Ends:—Material

Thickness

Radius or how stayed

Size of manhole or handhole

Headers or Sections:—Number

Material

Thickness

Tested by Hydraulic Pressure to

Material of Stays

Area at smallest part

Area supported by each stay

Working Pressure by Rules

Tubes:—Diameter

Thickness

Number

Steam Dome or Collector:—Description of Joint to Shell

Percentage strength of Joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diameter of Rivet Holes

Pitch of Rivets

Working Pressure of shell

by Rules

Crown or End Plates:—Material

Thickness

How stayed

## SUPERHEATER.

Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

425 lb

Date of Test

25-9-36

Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler

(complete)

Diameter of Safety Valve

Pressure to which each is adjusted

250

Is easing gear fitted

yes

Is a drain cock or valve fitted at lowest point of superheater

Number, diameter, and thickness of tubes

Spare Gear.

Tubes

Gaskets or joints:—Manhole

Handhole

Handhole plates

## FOR PARTICULARS OF THESE BOILERS

SEE GLASGOW REPORT Nº 57482.

The foregoing is a correct description,

Manufacturer.

Dates of Survey  
 { During progress of work in shops - - }  
 while building { During erection on board vessel - - - }

Is the approved plan of boiler forwarded herewith

SEE ACCOMPANYING MACHINERY REPORT.

## GENERAL REMARKS

(State quality of workmanship, opinions as to class, &amp;c.)

These boilers have been satisfactorily fitted in the vessel, tested to 425 lbs per sq" hydraulic pressure and found good. The safety valves were adjusted under steam

26/10/36

Survey Fee

...

£

When applied for,

19

Travelling Expenses (if any)

£

When received,

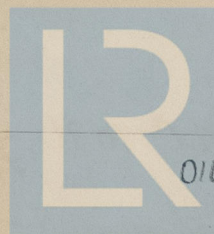
19

S. J. Davis

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 27 OCT 1936

Assigned SEE ACCOMPANYING MACHINERY REPORT.



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