

REPORT ON WATER TUBE BOILERS.

No. 58974

Received at London Office

OCT 27 1937

Date of writing Report

19

When handed in at Local Office

25/10/1937

Port of

Glasgow

No. in

Survey held at

Glasgow

Date, First Survey

Last Survey

21-10-1937

Reg. Bk.

on the

new steel S/S "IRON KNIGHT"

Number of Visits

Gross

4812

Net

2737

Master

Built at

Port Glasgow

By whom built

Lithgow & Co. Ltd. (No. 902)

When built

1937

Engines made at

Glasgow

By whom made

David Rowan & Co. Ltd. (No. 1007)

When made

1937

Boilers made at

Renfrew

By whom made

Babcock & Wilcox Ltd. (No. 6/1320)

When made

1937

Registered Horse Power

Owners

BROKEN HILL PROPRIETARY CO. LTD.

Port belonging to MELBOURNE

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

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

105 sq ft

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

none

No. and description of safety valves on

each boiler

Two Improved High Lift

Pressure to which they are adjusted

2.57

Are they fitted with easing gear

yes

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

no

Smallest distance between boilers or uptakes and bunkers or woodwork

2-6"

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 lbs (complete)

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

2" Imp'd High Lift

Pressure to which each is adjusted

250

Is easing gear fitted

yes

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

yes

Number, diameter, and thickness of tubes

Spare Gear.

Tubes

Gaskets or joints:—Manhole

Handhole

Handhole plates

For particulars of boilers see Gls Rpt No 58862

The foregoing is a correct description,

Manufacturer.

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

SEE ACCOMPANYING MACHINERY REPORT.

Is the approved plan of boiler forwarded herewith

no

Total No. of visits

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

The boilers have been satisfactorily fitted in the vessel and their safety valves adjusted under steam.

Survey Fee ... £

When applied for,

19

Travelling Expenses (if any) £

When received,

19

S. C. Davis

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 26 OCT 1937

Assigned SEE ACCOMPANYING MACHINERY REPORT



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