

REPORT ON WATER TUBE BOILERS.

No. 58974

Received at London Office

OCT 27 1937

Date of writing Report 19 25/10/1937 When handed in at Local Office Glasgow Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 21-10-1937 Last Survey 21-10-1937

Reg. Bk. on the new steel S/S "IRON KNIGHT" Number of Visits ✓ Tons Gross 4812
Net 2737

Master Built at Port Glasgow By whom built Lithgown 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 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 195 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 Area of each valve 3.14 sq in 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 JTB

Smallest distance between boilers or plates 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 no

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 G/L Rpt No. 58862 The foregoing is a correct description, Manufacturer.

Dates of Survey } During progress of work in shops - - - } Is the approved plan of boiler forwarded herewith no
while } During erection on board vessel - - - }
building }

SEE ACCOMPANYING MACHINERY REPORT. 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.

23/10/37

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**

