

# 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 Survey held at Glasgow Date, First Survey Last Survey 23-10-1936

Reg. Bk. on the new steel S/S "IRON KING" Number of Visits Tons Gross Net

Master Built at Port Glasgow By whom built Lithgows Ltd (S/S No 990) When built 1936

Engines made at Glasgow By whom made David Rowan & Co Ltd (No 993) When made 1936

Boilers made at Renfrew By whom made Babcock & Wilcox Ltd When made 1936

Registered Horse Power 414 Owners Burke 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  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  In case of donkey boilers state whether steam from main boilers can enter the donkey boiler  WDB

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 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 (complete)

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

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 - - } Is the approved plan of boiler forwarded herewith

while building } During erection on board vessel - - - }

SEE ACCOMPANYING MACHINERY REPORT.

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &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

Survey Fee ... : When applied for, 19

Travelling Expenses (if any) ... : When received, 19

See separate report.

*Sedans*  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 27 OCT 1936

Assigned SEE ACCOMPANYING MACHINERY REPORT.

