

REPORT ON WATER TUBE BOILERS.

No. 2414

12 SEP 1931

Received at London Office

Writing Report

8 Sept 1931

When handed in at Local Office 9 Sept 1931

Port of Barrow

Survey held at Barrow Date, First Survey 3rd Sept 1930 Last Survey 2nd Sept 1931

on the Turbine Screw Turbo Electric "Strathnaver" Number of Visits 34 Tons Gross 22344 Net 13620

Built at Barrow By whom built Vickers-Armstrongs Ltd When built 1931

By whom made The British Thomson Houston Co Ltd When made 1931

By whom made Garrow & Co & Vickers-Armstrongs Ltd When made 1931

Owners Peninsula & Oriental S.S. Co Ltd Port belonging to London

MANUFACTURERS OF STEEL STEEL ROLLING SCOTLAND & ENGLISH STEEL CO. LTD

Number and Description or Type of Boilers Two Yarrow Date of Approval of plan 29/5/30 Working Pressure 425 lbs Tested by Hydraulic Pressure to 688 lbs Date of Test 14/5/31

Can each boiler be worked separately Yes Total Heating Surface of Boilers 6000 sqft

Area of fire grate (coal) in each Boiler 3 sq yds No. and type of burners (oil) in each boiler 3 No. and description of safety valves on boiler 446 lbs

Pressure to which they are adjusted 446 lbs

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

Height of Boiler 15'-6" Width and Length 14'-5" x 14'-9"

Material of plates Steel Thickness 1/8 & 1/4"

Number in each boiler One Inside diameter 50" Material of plates Steel Thickness 1/8 & 1/4"

Are drum shell plates welded or flanged No Description of riveting:—

long. seams Solid Diameter of rivet holes in long. seams 3/8" Pitch of Rivets 3/4"

Percentage strength of long. joint:—Plate 33 1/3 Rivet 33 1/3

Percentage strength of shell in way of tubes 33 1/3

Depth and thickness of girders at centre of stay 1 1/2" x 1/4"

Number and pitch of stays in each 1108 Working pressure 425 lbs

Material of Stays Steel Thickness 1/8"

Radius on hour stayed 50"

Number in each boiler Three Inside Diameter 23"

Are drum shell plates welded or flanged No

long. seams Solid Diameter of Rivet Holes in 3/8"

Thickness of straps 1/8"

Pitch of tube holes 1 1/8", 2 7/8", 3 3/8"

Percentage strength of long. joint:—Plate 33 1/3 Rivet 33 1/3

Percentage strength of drum shell in way of tubes 33 1/3

Material of Headers or Sections:—Steel Thickness 29/32"

Number 8

Material of Stays Steel Thickness 1/8"

Working Pressure by Rules 425 lbs

Tubes:—Diameter 1 1/4" & 1 3/4"

Description of Joint to Shell

Material Steel Thickness of shell plates 1/8"

Diameter of Rivet Holes 3/8" Pitch of Rivets 3/4" Working Pressure of shell 425 lbs

How stayed

Material Steel Thickness 1/8"

Tested by Hydraulic Pressure to 688 lbs

Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler Cannot be shut off

Pressure to which each is adjusted 425 lbs

Is easing gear fitted Yes

Number, diameter, and thickness of tubes 254 - 1 1/8" - 9 25/32"

Manhole plates 8

Manhole Handhole

Manhole Handhole plates 8

The foregoing is a correct description, FOR VICKERS-ARMSTRONGS LIMITED, Manufacturer.

Is the approved plan of boiler forwarded herewith Yes

During progress of 1930 - Sept 3, Nov 5, 1931 - Jan 2, 7, 19, 26, Feb 6, 9, 13, 16, 19

During erection on 17, June 1, 15, 18, 29, July 10, 15, 16, 23, Aug 25

On board vessel - - -

Total No. of visits 34

Director

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

These boilers have been built under Special Survey in accordance with the Rules and the approved plans. They have been specifically mounted and fitted on board and their safety valves adjusted under steam.

Survey Fee ... £ ...

Travelling Expenses (if any) £ ...

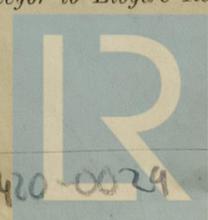
When applied for, 19

When received, 19

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 18 SEP 1931

See Rev. J.C. 2414



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