

REPORT ON WATER TUBE BOILERS.

No. 9027

Received at London Office

-2 DEC 1930

Date of writing Report

19

When handed in at Local Office

Nov 25 1930

Port of Trieste

No. in

Survey held at

Monfalcone

Date, First Survey

Oct 17

Last Survey

Nov 20 1930

Reg. Bk.

1057

on the

M/S J. A. Mowinkel

Number of Visits

7

Gross Tons

12323

Net Tons

6971

Master

Built at Monfalcone

By whom built Cantieri Riuniti dell'Aviazione

When built 1930

Engines made at

Turin

By whom made

Frat. Stab. Grandi Motori

When made

1930

Boilers made at

Rempire

By whom made

Babcock & Wilcox Ltd.

When made

1930

NHP

Registered Horse Power

271

Owners

Port belonging to

See 2750 Glasgow Rep. No. 50691
WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel D. Colville & Sons

Letter for Record 5 Date of Approval of plan 5.5.30 Number and Description or Type

of Boilers Two Babcock & Wilcox Type Working Pressure 200 lbs Tested by Hydraulic Pressure to 350 lbs Date of Test 29.10.30

No. of Certificate 299 Can each boiler be worked separately yes Total Heating Surface of Boilers 4068 sq ft

Is forced draught fitted yes Area of fire grate (coal) in each boiler — Total grate area of boilers in vessel including

Main and Auxiliary — No. and type of burners (oil) in each boiler 3 Ford No. and description of safety valves on

each boiler 1 pair 2" Improved HL Lockburn Area of each valve 3.14 sq ft x 2 Pressure to which they are adjusted 200 lbs

Are they fitted with easing gear yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler —

Smallest distance between boilers or uptakes and bunkers or woodwork 2' Height of Boiler 15'-3" Width and Length 10'-4" x 14'-0"

Steam Drums:—Number in each boiler one Inside diameter 3'-5 1/2" Material of plates Steel Thickness 17/32 TP 1/16"

Range of Tensile Strength 28-32 T Are drum shell plates welded or flanged no Description of riveting:—

Cir. seams D.P. Lap long. seams D.P. DBS. Diameter of rivet holes in long. seams 27/32" Pitch of Rivets 3.310"

Lap of plate or width of butt straps 9" mean Thickness of straps 17/32" Percentage strength of long. joint:—Plate 71.88 Rivet 94

Diameter of tube holes in drum 4 3/64 Pitch of tube holes 7" Percentage strength of shell in way of tubes 42.2

Does Drum have 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 Steel Thickness 15/16" Radius or how stayed 3'-0"

Size of Manhole or Handhole 16" x 12" Mud Water Drums:—Number in each boiler one Inside Diameter Square 6" x 6"

Material of plates Steel Thickness 3/4 Range of tensile strength 24, 28 T. Are drum shell plates welded

or flanged Solid drawn 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 4 3/64" Pitch of tube holes 7"

Percentage strength of drum shell in way of tubes 42.2 Mud Water Drum Heads or Ends:—Material Steel Thickness 3/4"

Radius or how stayed flat Size of manhole or handhole — Headers or Sections:—Number 14 pairs per Boiler

Material Steel Thickness 7/16" Tested by Hydraulic Pressure to 400 lbs Material of Stays —

Area at smallest part — Area supported by each stay — Working Pressure by Rules 207 lbs Tubes:—Diameter 4" & 1 1/16"

Thickness 4" { 1/4" 9 LSG 42 ~ 4" 1/8" 10 LSG Number 430 ~ 1 1/16" 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 —

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 — Pressure to which each is adjusted — Is easing gear fitted —

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 —

The foregoing is a correct description,

Manufacturer.

Dates of Survey } During progress of work in shops - - } See Glasgow Report No 50691 Is the approved plan of boiler forwarded herewith Yes
while } During erection on board vessel - - } 1930 Oct 17, 20, 29, Nov 5, 7, 17, 20 Total No. of visits Seven
building }

GENERAL REMARKS

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

These steam and water drums, sections and mud drums have been built at Rempire and assembled with tubes and mountings at Monfalcone under special survey. The boilers were afterwards tested to 350 lbs. water pressure and found in order. The safety valves were adjusted under steam to 200 lbs.

Survey Fee £ 967.- } When applied for, 27.11.1930

Travelling Expenses (if any) £ : : } When received, 20.1.1931

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

FRI, 12 DEC 1930

Assigned

See other 50691 Rpt



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