

REPORT ON WATER TUBE BOILERS.

No. 9027

Received at London Office

-2 DEC 1930

te of writing Report

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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* Tons { Gross *12323* Net *6971*
 Master Built at *Monfalcone* By whom built *Lantieri Rinniti dell'Aviazione* When built *1930*
 Engines made at *Turin* By whom made *Tiat Stab. granvi Motori* When made *1930*
 Boilers made at *Rempw* 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*
 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 0" 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 *1 1/2 TP 1 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 *3.313"*
 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*
 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 *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 *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" { 6 LSG 1 1/16 { 9 LSG 42 ~ 4" 1 1/16" 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 *—*

UPERHEATER. 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 } During progress of work in shops *—* Is the approved plan of boiler forwarded herewith *yes*
 of Survey while } During erection on board vessel *—* Total No. of visits *Seven*
 building

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These steam and water drums, sections and mudrums were built at Rempw 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 J.C. Rpt



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