

REPORT ON WATER TUBE BOILERS.

No. 50691.

Received at London Office

-2 DEC 1930

Date of writing Report 191 When handed in at Local Office 28.7.1930 Port of Glasgow.

No. in Survey held at Renfrew Date, First Survey 25.3.30 Last Survey 29th July 1930

Reg. Bk. on the BOILER No. 6/1264 S/S "AMOL" Number of Visits 24 Tons } Gross } Net }

Master Built at By whom built When built

Engines made at By whom made When made

Boilers made at Renfrew By whom made Babcock & Wilcox Ltd When made 1930.

Registered Horse Power Owners Port belonging to

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel *S. Colville & Sons.*

(Letter for Record *S*) Date of Approval of plan *5-5-30.* Number and Description or Type of Boilers *Two Babcock & Wilcox Type Working Pressure 200* 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 Todd ✓* No. and description of safety valves on each boiler *1 Pair 2" Improved H.L. Cochburn type. Area of each valve 6.28 sq inches 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 1/32 T.P. 17 1/2" ✓*

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

Cir. seams *D.R. Lap. long. seams D.R.D.B.S. Diameter of rivet holes in long. seams 27/32" ✓* Pitch of Rivets *3-3 1/3" ✓*

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 *SQUARE 6" x 6" ✓*

Material of plates *Steel ✓* Thickness *3/4" ✓* Range of tensile strength *24-28 tons ✓* 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 *9/16" 1 1/16" { 9 L3C 10 L3C Number 430 e 42 e 4" ✓* 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,

Babcock & Wilcox Ltd. Manufacturer.

Dates of Survey } During progress of work in shops - - } 1930. Mar 25. 26. 29. April 24. 22. 25. 30. Is the approved plan of boiler forwarded herewith *yes*

while } During erection on } May 2. 8. 12. 29. 30. June 2. 4. 12. } building } board vessel - - - } June 20. 24. July 1. 4. 10. 18. 29. Total No. of visits *24*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These Steam and water drums, Sections, and mud drums have been built under survey in accordance with the Rules and approved plans. The materials and workmanship are good. They are to the order Messrs Cantiere Navale Triestino, Monfalcone and intended for Oil Tanker "AMOL" for erection on board the vessel*

3/5 Survey Fee ... £ 15 : 13 : 0 } When applied for, ... } Tested to 350 lbs

Travelling Expenses (if any) £ : : } When received, ... } 191

MONTHLY ACCOUNT

Committee's Minute *GLASGOW 29 JUL 1930*

Assigned *TRANSMIT TO LONDON*

S. E. Murdoch 2021
 Engineer Surveyor to Lloyd's Register of Shipping.
 FRI. 12 DEC 1930
 See *See* Lloyd's Register Foundation