

29. FEB. 5.10.1932. 5c.
OCT. 1.

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REPORT ON WATER TUBE BOILERS.

No. 12647

Received at London Office

13 OCT 1932

of writing Report 28-9-1932. When handed in at Local Office 7-10-1932 Port of GENOA.

No. in Survey held at GENOA. Date, First Survey JULY 7. 1930. Last Survey SEPTEMBER 27. 1932.

Reg. Bk. 1376. on the STEEL SCREEN STEAMER "REX". (Number of Visits 116.) Tons Gross 5062. Net 30622.68.

Master LLOYD 131, 222, 714, 21. Built at SESTRI PONENTE, GENOA By whom built S.A. ANSALDO. When built 1932.

Engines made at SANPIERDARENA, GENOA. By whom made S.A. ANSALDO. When made 1932.

Boilers made at SANPIERDARENA, GENOA. By whom made S.A. ANSALDO. When made 1932.

NOMINAL Registered Horse Power 22070. Owners TANIA (FLOTTERUNITE COSULICH LLOYD SABAUO) Port belonging to GENOA. NAVIGAZIONE GENERALE.

KEY OF WATER TUBE BOILERS—MAIN, DOUBLE ENDED. Manufacturers of Steel FRIED KRUPP, ESSEN. ENGLISH STEEL CORPORATION, SHEFFIELD. ANSALDO, GENOA.

(Letter for Record S.) Date of Approval of plan 24-6-1930. Number and Description of Type of Boilers EIGHT DOUBLE ENDED, BENT TUBE. Working Pressure 27 Kg. CM². Tested by Hydraulic Pressure to 47 Kg. CM². Date of Test 1931. MAR. 17. 30. MAY. 19. 30. JUNE 18. 1931.

No. of Certificates 25, 216, 217, 218. Can each boiler be worked separately YES. Total Heating Surface of Boilers 10080.50 METRES.

Is 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 18. ANSALDO, FAGANI. No. and description of safety valves on each boiler FOUR HIGH LIFT, SPRING LOADED. Area of each valve 5026.5 SQ. CM. Pressure to which they are adjusted 27 Kg. CM².

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 420 mm. Height of Boiler 6043 mm. Width and Length 7017 mm x 7348 mm.

Steam Drums:—Number in each boiler ONE. Inside diameter 1600 mm. Material of plates STEEL. Thickness 25 mm x 58.5 mm.

Range of Tensile Strength 44-50 Kgs. Are drum shell plates welded or flanged SOLID FORGED. Description of riveting:—

Cir. seams DOUBLE 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 40 mm x 51 mm. Pitch of tube holes 78 mm x 100 mm. Percentage strength of shell in way of tubes 48.7% x 49%.

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 30 Kg. CM².

Steam Drum Heads or Ends:—Material STEEL. Thickness 31.5 mm. Radius or how stayed 900 mm.

Size of Manhole or Handhole 300 mm x 400 mm. Water Drums:—Number in each boiler TWO. Inside Diameter 850 mm.

Material of plates STEEL. Thickness 18 mm x 33.5 mm. Range of tensile strength 44-50 Kgs. Are drum shell plates welded or flanged SOLID FORGED.

Description of riveting:—Cir. seams DOUBLE 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 40 mm x 51 mm. Pitch of tube holes 78 mm x 100 mm.

Percentage strength of drum shell in way of tubes 48.7% x 49%. Water Drum Heads or Ends:—Material STEEL. Thickness 23 mm.

Radius or how stayed 610 mm. Size of manhole or handhole 300 mm x 400 mm. Headers or Sections:—Number.

Material. Thickness. Tested by Hydraulic Pressure to. Material of Stays.

Area at smallest part. Area supported by each stay. Working Pressure by Rules. Tubes:—Diameter 51 mm x 40 mm.

Thickness 5.4 mm x 4.4 mm x 3.9 mm. Number 224. At 51 mm O.D. Steam Domes or Collectors:—Description of Joint to Shell DOUBLE RIVETED.

Percentage strength of Joint 65.7%. Diameter 780 mm. Thickness of shell plates 21 mm. Material STEEL.

Description of longitudinal joint. SOLID FORGED. Diameter of Rivet Holes. Pitch of Rivets. Working Pressure of shell by Rules 51 Kg. CM².

Crown or End Plates:—Material STEEL. Thickness 21 mm. How stayed. RADIUS 620 mm.

SUPERHEATER. Type ANSALDO. Date of Approval of Plan 7.2.1931. Tested by Hydraulic Pressure to 47 Kg. CM².

Date of Tests 1931. JUNE 11, 15, 16, 18. JULY 14, 15, 18, 22. Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler YES.

Diameter of Safety Valve 60 mm. Pressure to which each is adjusted 28 Kg. CM². Is easing gear fitted YES.

Is a drain cock or valve fitted at lowest point of superheater YES. Number, diameter, and thickness of tubes No. 52, O.D. 40 mm, THICKNESS 3.9 mm.

Spare Gear. Tubes 2682. Gaskets or joints:—Manhole 34. Handhole. Handhole plates.

FOR ALL W.T. BOILERS. FOR ALL W.T. BOILERS.

"ANSALDO" is a correct description, STABILIMENTI MECCANICI SANPIERDARENA. Manufacturer.

1930. JULY 7. AUG. 8. 23. 26. SEPT. 2. 22. 30. OCT. 7. 11. 27. NOV. 11. 18. 25. 28. DEC. 5. 9. 12. 19. 30. 1931. JAN. 8. 20. 24. FEB. 12. 20. 23.

Dates of Survey During progress of work in shops - - - 22. 25. 30. JUNE 1. 5. 10. 11. 15. 16. 18. 20. 22. 25. 27. JULY 4. 6. 11. 13. 14. 15. 18. 20. 22. 25. 28. 29. AUG. 3. 6. 8. 21. 27. 31. SEPT. 1. 2. 3. 28.

while building During erection on board vessel - - - 1931. SEPT. 1. 10. 16. 24. OCT. 5. 18. NOV. 3. 17. 23. DEC. 6. 13. 29. Total No. of visits ONE HUNDRED AND SIXTEEN. (116)

1932. JAN. 6. 13. 27. FEB. 4. MAR. 3. 14. 29. APR. 5. 8. 13. 19. MAY. 9. 16. JULY 2. 11. 15. 16. 19. 21. AUG. 12. 18. 20. 23. 27. SEPT. 20. 26. 27.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) THESE BOILERS HAVE BEEN CONSTRUCTED UNDER

SPECIAL SURVEY OF TESTED MATERIALS AND ARE IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE

REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE GOOD AND THE BOILERS WHEN TESTED HYDRAULICALLY TO 47 Kg. CM²

WERE FOUND ENTIRELY SATISFACTORY. THEY HAVE NOW BEEN SATISFACTORILY FITTED ON BOARD THE "REX", THEIR SAFETY VALVES

ADJUSTED TO 27 Kg. CM² AND AN ACCUMULATION TEST HELD ON EACH WITH GOOD RESULTS.

Survey Fee ... SEE MACHINERY When applied for, 10.

Travelling Expenses (if any) & FIRST ENTRY: REPORT. When received, 10.

Committee's Minute TUE. 25 OCT 1932

Assigned See other report for 12647

TUE. 3 JAN 1933

FRI. 8 MAR 1933

FRI. 26 MAY 1933

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