

REPORT ON WATER TUBE BOILERS.

No. 2662.
JUL 21 1937

Received at London Office

of writing Report 19-7-1937 When handed in at Local Office 20-7-1937 Port of Barran.
No. in Survey held at Barran. Date, First Survey 20-4-36 Last Survey 12-7-1937
g. Bk. on the Im Co "ORCADES." Number of Visits 49 Tons Gross 23436 Net 14040
ster Built at Barran. By whom built Vickers Armstrongs & Co When built 1937
gines made at Barran. By whom made - do - When made 1937
lers made at - do - By whom made - do - When made 1937
Horse Power 490 Owners Orient Steam Navigation Co Port belonging to London.

ATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel
atter for Record 5. Date of Approval of plan 11-7-36 17-4-36 16-3-36 24-6-36 Number and Description or Type
Boilers 2 Water-tube, inclined type (small) Working Pressure 450 lb. Tested by Hydraulic Pressure to 725 lb. Date of Test 14-5-37
of Certificate 466. Can each boiler be worked separately yes. Total Heating Surface of Boilers 7170
forced draught fitted yes. Area of fire grate (coal) in each Boiler 4 Total grate area of boilers in vessel including
in and Auxiliary 4 No. and type of burners (oil) in each boiler 4 No and description of safety valves on
boiler 1 Area of each valve 3 Pressure to which they are adjusted 210
they fitted with easing gear yes. In case of donkey boilers state whether steam from main boilers can enter the donkey boiler
allest distance between boilers or uptakes and bunkers on woodwork Height of Boiler 18'3" Width and Length 16'6" x 18'0"
am Drums:—Number in each boiler One Inside diameter 3'6" Material of plates steel Thickness 1/2"
age of Tensile Strength 28/32 Are drum shell plates welded or flanged Sole flange Description of riveting:—
seams long. Diameter of rivet holes in long. seams 1/2" Pitch of Rivets 1"
of plate or width of butt straps 1/2" Thickness of straps 1/2" Percentage strength of long. joint:—Plate 44 Rivet 44
meter of tube holes in drum 1/2" Pitch of tube holes 7/4" Percentage strength of shell in way of tubes 44
Drum has a flat side state method of staying Distance apart Depth and thickness of girders at centre
fitted) Distance apart Number and pitch of stays in each Working pressure
rules Steam Drum Heads or Ends:—Material Thickness Radius
e of Manhole Handhole 15" x 14" Water Drums:—Number in each boiler Inside Diameter
terial of plates See also Glasgow Report Range of shell strength Are drum shell plates welded
flanged Description of riveting long. Diameter of Rivet Holes in
7. seams Pitch of rivets Lap of plates or width of butt straps Thickness of straps
centage strength of long. joint:—Plate Rivet Diameter of tube holes in drum Pitch of tube holes
centage strength of drum shell in way of tubes Water Drum Heads or Ends:—Material Thickness
lius or how stayed Size of manhole or handhole Headers or Sections:—Number 120
terial Thickness Tested by Hydraulic Pressure to Material of Stays
a at smallest part Area supported by each stay Working Pressure by Rules Tubes:—Diameter
ckness 4" - 2 1/2" x 456 Number 20 4" Steam Dome or Collector:—Description of Joint to Shell
centage strength of Joint Diameter Thickness of shell plates Material
ription of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shell
Rules Crown or End Plates:—Material Thickness How stayed
ERHEATER. Type Horizontal Date of Approval of Plan 17-4-36 Tested by Hydraulic Pressure to 725 lb.
e of Test 9-10-36 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler yes.
meter of Safety Valve 2" Single Spring Pressure to which each is adjusted 440 lb. Is easing gear fitted yes.
e drain cock or valve fitted at lowest point of superheater yes. Number, diameter, and thickness of tubes 75 1 1/2" OD x 5456
are Gear. Tubes Gaskets or joints:—Manhole 2 Handhole 65 Handhole plates 4 COMPLETE WITH BRIDGE
6 SUPERHEATER EACH LENGTH.

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

ates During progress of (See also Rept. on temp. type boilers) Is the approved plan of boiler forwarded herewith yes.
urvey work in shops -
hile During erection on
ding board vessel - - -
Total No. of visits 49

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

boilers have been constructed under Special Survey & in accordance with Rule
requirements, and the materials & workmanship are sound & good. They have been
recently installed on board, & their safety valves adjusted under steam as above
(also machinery Rept. attached).

Survey Fee ... £ 100 When applied for, 20-7-1937
Travelling Expenses (if any) £ 10 When received, 19

Committee's Minute

igned See other F. E. report

Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register
Foundation