

REPORT ON WATER TUBE BOILERS.

No. 40660
WED. DEC. 4 1920

Received at London Office

of writing Report 6.12.1920 When handed in at Local Office 6.12.1920 Port of Glasgow
No. in Survey held at Glasgow Date, First Survey 3rd June 1919 Last Survey 27th Nov 1920
eg. Bk. on the S.S. SALABANGKA Number of Visits 64 Tons Gross 6645 Net 4155
Built at Glasgow By whom built Lithgows Ltd When built 1920
Engines made at Glasgow By whom made W Rowan & Co Ltd 1920
Boilers made at Glasgow By whom made Howden's 1920
Registered Horse Power Owners Port belonging to 1920

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY. Manufacturers of Steel Lukens Steel Co. Coatsville PA. U.S.A.
Letter for Record S Date of Approval of plan 10.9.19 Number and Description or Type
Boilers 4 Howden's Patent (3 elements) Working Pressure 180 lb Tested by Hydraulic Pressure to 320 lb Date of Test 1-9-20
No. of Certificate 15462 Can each boiler be worked separately. Yes Total Heating Surface of Boilers 10560 ft²
forced draught fitted Yes Area of fire grate (coal) in each boiler 45 ft² Total grate area of boilers in vessel including
Main and Auxiliary 180 ft² No. and type of burners (oil) in each boiler none No. and description of safety valves on
each boiler 2 Spring loaded Area of each valve 8.297 in² Pressure to which they are adjusted 185 lb
Are they fitted with easing gear Yes In case of donkey boilers state whether steam from main boilers can enter the donkey boiler 12.703 x 13.5
Smallest distance between boilers or uptakes and bunkers or woodwork 23 in Height of Boiler 15.93 ft Width and Length over an 18 in
Steam Drums:—Number in each boiler 3 Inside diameter 3.078 x 2.78 ft Material of plates Steel Thickness 1/8 in
Range of Tensile Strength Tube Plate 26-30 tons Are drum shell plates welded or flanged Tube Plate flanged Description of riveting:—
Cir. seams S Lap long. seams do Lap Diameter of rivet holes in long. seams 7/8 in Pitch of Rivets 2.56 in
Lap of plate or width of butt straps 4 3/16 in Thickness of straps — Percentage strength of long. joint:—Plate 65.8 Rivet 79.86
Diameter of tube holes in drum 2 3/32 in Pitch of tube holes 3 1/8 x 5 1/2 in Percentage strength of shell in way of tubes —
If Drum has a flat side state method of staying Thick tube plates with girders at end Depth and thickness of girders at centre
if fitted 6 3/8 in x 1 1/8 in double Distance apart 6 7/8 in Number and pitch of stays in each drum 6 3/4 in Working pressure
by rules 200 lb Steam Drum Heads or Ends:—Material Steel Thickness 3/4 in Radius or how stayed 21 in Radius
Size of Manhole or Handhole 16 x 12 in wrapper Water Drums:—Number in each boiler 3 Inside Diameter 3.078 x 2.78 in
Material of plates Steel Thickness 1/8 in Range of tensile strength 26-30 tons Are drum shell plates welded
or flanged Tube Plate flanged Description of riveting:—Cir. seams S Lap long. seams do Lap Diameter of Rivet Holes in
long. seams 7/8 in Pitch of rivets 2.65 in Lap of plates or width of butt straps 4 3/16 in Thickness of straps —
Percentage strength of long. joint:—Plate 67 Rivet 68.58 Diameter of tube holes in drum 2 3/32 in Pitch of tube holes 3 1/8 x 5 1/2 in
Percentage strength of drum shell in way of tubes — Water Drum Heads or Ends:—Material Steel Thickness 3/4 in
Radius or how stayed (1) manhole (1) 21 in Rad Size of manhole or handhole 16 x 12 in 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 2 in
Thickness 6 x 10 W.G. Number 717 Pa boiler Steam Dome or Collector:—Description of Joint to Shell Stand Pipe riveted Pa
Percentage strength of Joint 67.2 79.8 Diameter 2-6 in Thickness of shell plates 7/8 in Material Steel
Description of longitudinal joint do Lap Diameter of Rivet Holes 13/16 in Pitch of Rivets 2.48 in Working Pressure of shell
by Rules 22.6 Crown or End Plates:—Material Steel Thickness 13/16 in How stayed 2-6 Radius
SUPERHEATER. Type Howden Date of Approval of Plan 22.12.19 Tested by Hydraulic Pressure to 540 lb
Date of Test 25.5.20 Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler Yes
Diameter of Safety Valve 2 in Pressure to which each is adjusted 195 lb Is easing gear fitted No
Is a drain cock or valve fitted at lowest point of superheater Yes Number, diameter, and thickness of tubes 16 tubes 1200 x 8 W.G.
Spare Gear. Tubes none Gaskets or joints:—Manhole 24 Handhole — Handhole plates —

The foregoing is a correct description,
D. Rowan & Co. Ltd. Manufacturer.

Dates of Survey During progress of work in shops — See attached machy report. Is the approved plan of boiler forwarded herewith No
while building During erection on board vessel — Total No. of visits 64

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers and Superheaters have been built under special survey materials and workmanship are good. They have been well fitted to the vessel.

Survey Fee ... £ Charge on ...
Travelling Expenses (if any) £ ...
When applied for, 191
When received, 191

Committee's Minute
Assigned See attached machinery report.

as Easthope
Engineer Surveyor to Lloyd's Register of Shipping.

Glasgow 7-DEC 1920



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