

REPORT ON BOILERS.

No. 18503

Received at London Office 24 FEB 1926

Date of writing Report 16th Feb. 1926 When handed in at Local Office 18th Feb. 1926 Port of Greenock

No. in Survey held at Greenock Date, First Survey 9th June, 1925 Last Survey 15th February, 1926
Reg. Book. S/S "Sandviken" (Number of Visits 44)

Master Built at Glasgow By whom built W. Hamilton C.L.A. (394) When built 1926
Engines made at Greenock By whom made Rankin, Blackmore C.L.A. (416) When made 1926
Boilers made at ditto By whom made ditto (416) When made 1926
Registered Horse Power Owners Wallen, Co A/S Port belonging to Bergen

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Krupps Aug. Pflugschütz Hütte Grounschaft

Letter for record S Total Heating Surface of Boilers 4302 sq ft Is forced draft fitted No No. and Description of Boilers 2 Single Ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 30-12-25
No. of Certificate 1413 Can each boiler be worked separately Yes Area of fire grate in each boiler 66 sq ft No. and Description of Safety valves to each boiler Double Spring Area of each valve 8.29 sq in Pressure to which they are adjusted 185
Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Smallest distance between boilers or uptakes and bunkers or woodwork 13 in dia. of boilers 15-17/32 Length 10-6
Material of shell plates S Thickness 17/32 Range of tensile strength 28/32 Are the shell plates welded or flanged Yes
Description of riveting: cir. seams DR long. seams TR.D.B.S Diameter of rivet holes in long. seams 1 1/4 Pitch of rivets 8 15/16
Pitch of plates or width of butt straps 1-6 5/8 Per centages of strength of longitudinal joint rivets 86 7/10 plate 86 5/10 Working pressure of shell by rules 181

No. and Description of Furnaces in each boiler 3 Deighton Material S Outside diameter 48 1/4 Length of plain part 9 1/16 Thickness of plates crown 9 1/16 bottom 9 1/16
Description of longitudinal joint weld No. of strengthening rings 1 Working pressure of furnace by the rules 180 Combustion chamber
Material S Thickness: Sides 43/64 Back 21/32 Top 43/64 Bottom 3/4 Pitch of stays to ditto: Sides 8 5/8 x 9 3/4 Back 9 5/8 x 8 1/16

If stays are fitted with nuts or riveted heads Yes Working pressure by rules 181 Material of stays S Area at smallest part 1.7236
Area supported by each stay 84 sq in Working pressure by rules 181 End plates in steam space: Material S Thickness 15/16
How are stays secured DN.W. Working pressure by rules 181 Material of stays S Area at smallest part 7.24
Area supported by each stay 445 sq in Working pressure by rules 180 Material of Front plates at bottom S Thickness 1 Material of cover back plate S Thickness 13/16 Greatest pitch of stays 13 1/4 Working pressure of plate by rules 183 Diameter of tubes 3 1/4

Material of tube plates S Thickness: Front 1 Back 3/4 Mean pitch of stays 10 3/32 Pitch across wide tubes spaces 13 3/4 Working pressures by rules 183 Girders to Chamber tops: Material S Depth and thickness of girder at centre 9 1/2 x 3 1/4 (2) Length as per rule 34.6 Distance apart 9 3/4 Number and pitch of Stays in each 3 at 8 5/8
Working pressure by rules 184 Steam dome: description of joint to shell _____ % of strength of joint _____

Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____
Pitch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____
SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
Pressure to which each is adjusted _____ Is Easing Gear fitted _____

The foregoing is a correct description, RANKIN & BLACKMORE, LTD., Manufacturer. Director.

Is the approved plan of boiler forwarded herewith _____
Total No. of visits _____

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under special survey in accordance with the approved plans. The workmanship & material are of good quality. They have now been securely fitted on board. Plus Ref. Accompanys' trial of the delivery. (Ref. of Boilers 80.414 G.L. Ref. No. 18482)

Survey Fee _____ When applied for, _____ 19____
When received, _____ 19____

Committee's Minute GLASGOW 23 FEB 1926
Signed See accompanying report.
W. Gordon-Mitchell © 2021
Engineer, Surveyor to Lloyd's Register of Shipping.