

# REPORT ON BOILERS.

No. 18503

Received at London Office 24 FEB 1926

16th Feb. 1926 When handed in at Local Office 16th 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) Gross Tons Net

Master W. Hamilton Built at Glasgow By whom built W. Hamilton & Co. Ltd. (1924) When built 1926

Engines made at Greenock By whom made Rankin, Blackmore & Co. Ltd. (416) When made 1926

Boilers made at ditto By whom made ditto (416) When made 1926

Registered Horse Power Waller, Co. Ltd. Port belonging to Bergen

**MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel Krupps Aug. Pflugschaff

Letter for record S Total Heating Surface of Boilers 4302 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 No. and Description of Safety valves to each boiler Double spring Area of each valve 8.29 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" 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

Descrip. 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"

Per centages of strength of longitudinal joint rivets 86 7/8% Working pressure of shell by rules 181

Size of manhole in shell 16 1/2" Size of compensating ring 2 5/8" x 2 10/16" x 1 7/32" No. and Description of Furnaces in each boiler 3 Deighton Material S Outside diameter 48 1/4" Length of plain part top 9 1/16" Thickness of plates crown 9 1/16" bottom 9 1/16"

Material S Thickness: Sides 43/64" Back 2 1/32" Top 43/64" Bottom 3/4" Working pressure of furnace by the rules 180 Combustion chamber

If stays are fitted with nuts or riveted heads Yes Working pressure by rules 181 Material of stays S Area at smallest part 1 1/2 x 2 3/8"

Area supported by each stay 84" Working pressure by rules 181 End plates in steam space: Material S Thickness 1 5/16"

How are stays secured DN.W. Working pressure by rules 181 Material of stays S Area at smallest part 7 2 1/4"

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

Working pressures by rules 183 Girders to Chamber tops: Material S Depth and thickness of

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

Working pressure of shell by rules Crown plates Thickness How stayed

**SUPERHEATER.** Type None Date of Approval of Plan None Tested by Hydraulic Pressure to None

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler None

Pressure to which each is adjusted None Is Easing Gear fitted None

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

Is the approved plan of boiler forwarded herewith Yes Total No. of visits 44

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under special survey in accordance with the approved rules. The workmanship & material are of good quality. They have been securely fitted on board. This Report accords with that of the previous (Ref. of Boilers & Co. Ltd. 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 Engineer, Surveyor to Lloyd's Register of Shipping.