

REPORT ON WATER TUBE BOILERS.

No. 20943.

Received at London Office

APR 17 1940

Date of writing Report 10th April 1940 When handed in at Local Office 15th April 1940 Port of GREENOCK

No. in Survey held at GREENOCK Date, First Survey Last Survey 12-4-40 191
 Reg. Bk. 39917^{S-4} on the T.W. S.S. LANARKSHIRE Number of Visits Tons { Gross 9516 Net 5822
 Master Built at GREENOCK By whom built GREENOCK DRY DOCK CO. LTD When built 1940
 Engines made at NEWCASTLE ON TYNE By whom made PARSONS MARINE STEAM TURBINE CO When made 1939
 Boilers made at RENFREW By whom made BABCOCK & WILCOX LTD When made 1939
 Registered Horse Power 9200 Owners CLAN LINE STEAMERS LTD Port belonging to GLASGOW

WATER TUBE BOILERS—MAIN, AUXILIARY, OR DONKEY.—Manufacturers of Steel

(Letter for Record 5 WT) Date of Approval of plan Number and Description or Type of Boilers Three Babcock & Wilcox Type Working Pressure 250 lb Tested by Hydraulic Pressure to 425 lb Date of Test 6/2/40
 No. of Certificate 2203 Can each boiler be worked separately Yes Total Heating Surface of Boilers 14790 sq ft
 Is forced 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 No. and description of safety valves on each boiler One 3" Dia Double Imp. H.L. Area of each valve 7.06 sq ft Pressure to which they are adjusted 250 lbs/sq in
 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 Height of Boiler Width and Length
 Steam Drums:—Number in each boiler Inside diameter 6' 6" Material of plates Thickness Range of Tensile Strength Description of riveting:— Cir. seams 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 Ricet Diameter of tube holes in drum Pitch of tube holes Percentage strength of shell in way of tubes
 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 Steam Drum Heads or Ends:—Material Thickness Radius or how stayed
 Size of Manhole or Handhole Water Drums:—Number in each boiler Inside Diameter Material Thickness Range of tensile strength Are drum shell plates welded or flanged Description of riveting:—Cir. seams 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 Ricet Diameter of tube holes in drum Pitch of tube holes Percentage strength of drum shell in way of tubes Water Drum Heads or Ends:—Material Thickness Radius or how stayed Size of manhole or handhole 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 Thickness Number Steam Dome or Collector:—Description of Joint to Shell Percentage strength of Joint Diameter Thickness of shell plates Material Description of longitudinal joint Diameter of Rivet Holes Pitch of Rivets Working Pressure of shell by Rules Crown or End Plates:—Material Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to Date of Test Is a safety valve fitted to each section of the superheater which can be shut off from the Boiler Diameter of Safety Valve 3" angle Imp. H.L. Pressure to which each is adjusted 240 lbs/sq in Is easing gear fitted Yes Is a drain cock or valve fitted at lowest point of superheater Number, diameter, and thickness of tubes
 Spare Gear. Tubes Gaskets or joints:—Manhole Handhole Handhole plates

The foregoing is a correct description,

Manufacturer.

Dates of Survey } During progress of work in shops - - -
 while building } During erection on board vessel - - -
 SEE MACHINERY REPORT 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 efficiently installed on board the vessel. They have been tested by hydraulic pressure & found tight & sound. The Main & Superheater safety valves have been adjusted under steam, accumulation nil. These boilers are eligible in my opinion to be fitted on board a vessel classed in the Society's Register Book

Survey Fee ... £ : : } When applied for, 191
 Travelling Expenses (if any) £ : : } When received, 101

Charles J. Hunter
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 16 APR 1940

Assigned SEE ACCOMPANYING MACHINERY REPORT.

