

# REPORT ON BOILERS.

No. 39026.

Received at London Office: WED. 20 AUG. 1919

Date of writing Report 1919 When handed in at Local Office 15. 8. 1919 Port of Glasgow  
 No. in Survey held at Renfrew Date, First Survey 8. 7. 18. Last Survey 10. 3. 1919  
 Reg. Book. on the three Babcock & Wilcox boilers for S.S. "Sumbank" (Number of Visits 26.) Gross Tons }  
 Net Tons }  
 Master Built at Burntisland By whom built Burntisland S.B. Co. Ltd When built 1919  
 Engines made at Kirkcaldy By whom made Douglas & Grant Kirkcaldy When made 1919  
 Boilers made at Renfrew By whom made Messrs Babcock & Wilcox (430) When made 1919.  
 Registered Horse Power Owners Sun Shipping Co. Ltd Port belonging to London

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Co. Scotland & Shipbuilding Co. Ltd

Letter for record S Total Heating Surface of Boilers 8289 sq ft Is forced draft fitted Yes No. and Description of Boilers Three Babcock & Wilcox Working Pressure 180 Tested by hydraulic pressure to 360 Date of test —  
 No. of Certificate — Can each boiler be worked separately — Area of fire grate in each boiler 84 1/2 sq ft No. and Description of safety valves to each boiler (Pair) Double Spring Area of each valve — Pressure to which they are adjusted —  
 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 — Mean dia. of boilers 4'-0" Length 13'-3 1/2"  
 Material of shell plates S Thickness 1 1/32" x 1" Range of tensile strength 28/32 Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams D.R. Lap long. seams T.R.S.B.S Diameter of rivet holes in long. seams 2 1/32" Pitch of rivets 3 3/4"  
 Lap of plates or width of butt straps 4" Per centages of strength of longitudinal joint rivets 44.5 Working pressure of shell by rules 2/0 Size of manhole in shell 15" x 11" Size of compensating ring 22" x 28 3/4" x 1/8" No. and Description of Furnaces in each boiler none Material — Outside diameter — Length of plain part — Thickness of plates —  
 Description of longitudinal joint — No. of strengthening rings — Working pressure of furnace by the rules — Combustion chamber plates: Material — Thickness: Sides — Back — Top — Bottom — Pitch of stays to ditto: Sides — Back —  
 Top — If stays are fitted with nuts or riveted heads — Working pressure by rules — Material of stays — Diameter at smallest part — Area supported by each stay — Working pressure by rules — End plates in steam space: Material S Thickness 1 3/16"  
 Pitch of stays — How are stays secured — Working pressure by rules — Material of stays — Diameter at smallest part —  
 Area supported by each stay — Working pressure by rules — Material of Front plates at bottom — Thickness — Material of Headers S Thickness 1 1/32" Greatest pitch of stays — Working pressure of plate by rules — Diameter of tubes 1 3/16" - 1 3/8"  
 Pitch of tubes 2 5/8" x 2 3/4" Material of tube plates S Thickness: Front 1" Back — Mean pitch of stays 4" Pitch across wide water spaces — Working pressures by rules — Girders to Chamber tops: Material — Depth and thickness of girder at centre — Length as per rule — Distance apart — Number and pitch of Stays in each —  
 Working pressure by rules — Superheater or Steam chest: how connected to boiler — Can the superheater be shut off and the boiler worked separately — Diameter — Length — Thickness of shell plates 3/4" Material S Description of longitudinal joint weld Diam. of rivet holes — Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —  
 If stiffened with rings — Distance between rings — Working pressure by rules — End plates: Thickness — How stayed —  
 Working pressure of end plates — Area of safety valves to superheater — Are they fitted with easing gear —

### Survey request form

No. 2227 attached to Gls. Rpt. N° 38576.

The foregoing is a correct description,

Babcock & Wilcox Manufacturer.

Dates of Survey } During progress of work in shops - - } 1918. July 8-9. Aug 2-15-27-29. Sept 6-9-11-12. Oct 13-24-26. Oct 28-29-31. Nov. 14-19. Dec 2-9-19. Is the approved plan of boiler forwarded herewith No. Previously forwarded with Gls. Rpt. 34660  
 while building } During erection on board vessel - - - } 1919. Feb. 22-24-28. March 10. Total No. of visits 26.

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 and materials are of good quality. Steam drums tested to 360 lbs. Headers & tubes tested to 400 lbs. & the mud drums to 40 lbs/sq. These parts are being shipped to Leith at which port they will be erected on board & tested to 360 lbs/sq hydraulic pressure. (Boilers erected in Shop previous to shipment.)  
These boilers are a duplicate of No 381.

Survey Fee £ 1/4 Machinery When applied for, 191

Travelling Expenses (if any) £ See to be credited When received, 191

to Glasgow Office.  
See Rpt. N° 15674

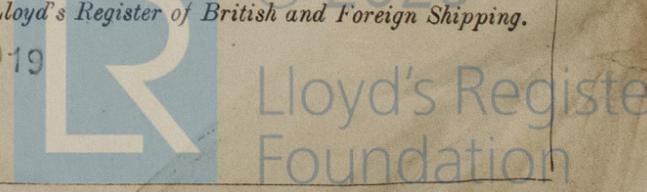
W. Fraser 2020

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

TUE NOV. 25. 1919

Committee's Minute GLASGOW 19 AUG 1919

Assigned TRANSMIT TO LONDON



27 JUL 1915

