

REPORT ON BOILERS.

No. 42800

Date of writing Report 7th June 1923 When handed in at Local Office 9th June 1923 Port of Glasgow
No. in Survey held at Glasgow Date, First Survey 15. 1. 1921 Last Survey 7. 6. 1923
Reg. Book. Boiler N° B 305 S.S. Howarna (Number of Visits 14) Gross Tons 14 Net Tons 14
Master Port-Glasgow Built at Port-Glasgow By whom built Dunlop Bremner & Co., Ltd. (N° 243) When built 1923
Engines made at Port-Glasgow By whom made Dunlop Bremner & Co., Ltd. (N° 243) when made 1923
Boilers made at Glasgow By whom made D. Rowan & Co. Ltd. B305 when made 1923
Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D. Colville & Sons, Ltd.
(Letter for record 6) Total Heating Surface of Boilers 5925 Is forced draft fitted no No. and Description of Boilers Three Ringle Ended Working Pressure 180 lbs. Tested by hydraulic pressure to 320 lbs. Date of test 7-6-23
No. of Certificate 16272 Can each boiler be worked separately - yes Area of fire grate in each boiler 55 No. and Description of safety valves to each boiler - 2 Spring Area of each valve - 5.94 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 ✓
Smallest distance between boilers or uptakes and bunkers or woodwork - 3.0 Mean dia. of boilers 13'-9 3/4" Length 11'-6"
Material of shell plates Steel Thickness 1 1/8" Range of tensile strength 28/32 tons Are the shell plates welded or flanged no
Descrip. of riveting: cir. seams D.R. Lap long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 8 3/8"
Pitch of plates or width of butt straps 18" Per centages of strength of longitudinal joint 87.8 Working pressure of shell by rules 182 lbs Size of manhole in shell 16" x 12" Size of compensating ring None No. and Description of Furnaces in each boiler 3 Deighton Material Steel Outside diameter 3'-8 1/2" Length of plain part Thickness of plates crown 1 1/8" bottom 1 1/8"
Description of longitudinal joint weld No. of strengthening rings None Working pressure of furnace by the rules 185 lbs. Combustion chamber plates: Material Steel Thickness: Sides 1/8" Back 23/32" Top 1/8" Bottom 1/8" Pitch of stays to ditto: Sides 8 1/2" x 10 3/8" Back 9" x 10 1/2"
Stays are fitted with nuts or riveted heads nuts Working pressure by rules 181 Material of stays Steel Diameter at supported by each stay 94.5 Working pressure by rules 197 1/2 End plates in steam space: Material Steel Thickness 1 5/8"
Stays secured D. nuts Working pressure by rules 182 Material of stays Steel Diameter at smallest part 7.06"
Working pressure by rules 181 1/2 Material of Front plates at bottom Steel Thickness 5/8" Material of lower back plate Greatest pitch of stays 13 1/8" x 9" Working pressure of plate by rules 180 1/2 Diameter of tubes 3 1/2"
Pitch of tubes 4 3/4" x 4 3/4" Material of tube plates Steel Thickness: Front 5/8" Back 3/4" Mean pitch of stays 9 1/2" Pitch across wide water spaces 14 1/2" Working pressures by rules 182 lbs. Girders to Chamber tops: Material Steel Depth and thickness of girders at centre 9 3/4" x 20 7/8" Length as per rule 2'-11 1/2" Distance apart C. 10 1/2" Number and pitch of Stays in each 30 8 1/2"
Working pressure by rules W. 197 Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked separately - Diameter - Length - Thickness of shell plates - Material - Description of longitudinal joint - Diam. of rivet holes - Pitch of rivets - Working pressure of shell by rules - Diameter of flue - Material of flue plates - Thickness -
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 -

Annual Survey Request The foregoing is a correct description, For David Rowan & Co. Ltd. Manufacturer. Arch. W. Greerison
Dates Survey During progress of 1921 Jan 15 Feb 6 Mar 8 Apr 14 May 30 1923 Feb 13 Is the approved plan of boiler forwarded herewith Yes
while work in shops - - Mar 14, 21, 27, Apr 18, May 18, 23 Jun 7
during During erection on board vessel - - - Total No. of visits 14

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed under Special Survey in accordance with the Rules and approved plan; the materials and workmanship are good; the boilers are a duplicate of N° 295, Gls. Rpt. N° 40039. The bottom are to be fitted on board the vessel at Port-Glasgow

Survey Fee £ 32 : 5 : - When applied for 12 6 1923
Travelling Expenses (if any) £ : : - When received 1924-24
Committee's Minute GLASGOW 12 JUN 1923 TRANSMIT TO LONDON
Assigned GLASGOW -8 JUL 1924
La G. R. N° 18256
FRI. 4 MAR 1927 FRI. 1 JAN 1926 FRI. 4 DEC 1925 FRI. 9 MAR 1928
FRI. 17 DEC 1920 TUE. 12 AUG 1930 TUE. 29 APR 1930 FRI. 24 SEP 1928 TUE. 2 OCT 1928
FRI. 25 JAN 1929
Lloyd's Register Foundation