

REPORT ON BOILERS.

No. 40,134.

Received at London Office JUN. 30 1920

of writing Report *May 8th 1920* When handed in at Local Office *26. 6. 1920*. Port of *GLASGOW*.
 in Survey held at *Paisley* Date, First Survey *23. 6. 19.* Last Survey *5. 5. 1920*.
 Book. on the *S.E. Marine Boiler for SS FINVOY* (Number of Visits *8*) } Gross Tons }
 } Net Tons }
 ter Built at _____ By whom built _____ When built *1920*
 ines made at _____ By whom made _____ When made _____
 lers made at *Paisley* By whom made *A. F. Craig & Co Ltd (655)* When made *1920*.
 istered Horse Power _____ Owners _____ Port belonging to _____

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *D. Colville & Sons. Ltd.*

atter for record *S*) Total Heating Surface of Boilers *1298* sq ft Is forced draft fitted *no* No. and Description of
 Boilers *One S.E. Marine* Working Pressure *135* Tested by hydraulic pressure to *240* Date of test *5/5/20*

of Certificate *15244* Can each boiler be worked separately _____ Area of fire grate in each boiler *44.5* sq ft No. and Description of
 Safety valves to each boiler *Double Spring* Area of each valve *4.07* sq ft Pressure to which they are adjusted *140 lbs*

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 *12"* Mean dia. of boilers *12' 0"* Length *10' 0"*

Material of shell plates *Steel* Thickness *49/64* Range of tensile strength *28 to 32* Are the shell plates welded or flanged *No*
 Description of riveting: cir. seams *DR Lap* long. seams *TR DBS* Diameter of rivet holes in long. seams *15/16* Pitch of rivets *4 3/8*

Per centages of strength of longitudinal joint rivets *90.4* Working pressure of shell by
 rules *134* Size of manhole in shell *16" x 12"* Size of compensating ring *29 5/8" x 25 3/4" x 3/4"* No. and Description of Furnaces in each
 boiler *3. Plain* Material *Steel* Outside diameter *3' 1"* Length of plain part *6' 9 1/2"* Thickness of plates *41/64*
 crown }
 bottom } *64*

Description of longitudinal joint *Weld* No. of strengthening rings *None* Working pressure of furnace by the rules *135* Combustion chamber
 plates: Material *Steel* Thickness: Sides *9/16* Back *9/16* Top *9/16* Bottom *15/16* Pitch of stays to ditto: Sides *8 1/2" x 8* Back *8 1/2" x 4 1/2"*

Top *8 1/2" x 8 1/2"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *160* Material of stays *Steel* Diameter at
 smallest part *1.22"* Area supported by each stay *68"* Working pressure by rules *143* End plates in steam space: Material *Steel* Thickness *15/16*

Pitch of stays *19 1/2" x 15* How are stays secured *Nut & Washer* Working pressure by rules *134* Material of stays *Steel* Diameter at smallest part *4.3"*
 Area supported by each stay *292.5"* Working pressure by rules *152* Material of Front plates at bottom *Steel* Thickness *15/16* Material of

Lower back plate *Steel* Thickness *15/16* Greatest pitch of stays *1' 2" x 8 1/2"* Working pressure of plate by rules *226* Diameter of tubes *3 1/4"*
 Pitch of tubes *4 1/2" x 4 3/8"* Material of tube plates *Steel* Thickness: Front *15/16* Back *23/32* Mean pitch of stays *11 1/16"* Pitch across wide

water spaces *1' 2"* Working pressures by rules *160* Girders to Chamber tops: Material *Steel* Depth and thickness of
 girder at centre *8" x 1/2"* Length as per rule *29 23/32* Distance apart *8 1/2" 9"* Number and pitch of Stays in each *2 @ 8 1/2"*

Working pressure by rules *146* 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 _____
 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. *2H15* attached The foregoing is a correct description,
W. J. Murray Manufacturer.

Dates of Survey } During progress of *1919 June 23. July 9 Sept. 16.* Is the approved plan of boiler forwarded herewith *Yes.*
 while building } During erection on board vessel *1920 Feb 18 Mar 19 Apr 9-30 May 5* Total No. of visits *8*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *The boiler was built under special survey in accordance with the approved plan. The workmanship and materials are good. This boiler now securely fitted on board and tried under steam with satisfactory results.*

Survey Fee ... : : When applied for, *101*
 Travelling Expenses ... : : When received, *101*
Survey Fee Paid

Committee's Minute *GLASGOW 29 JUN 1920*
 Assigned *See attached report on machinery*
D. C. Barr Engineer Surveyor to Lloyd's Register of Shipping.