

REPORT ON BOILERS.

No. 72102

Date of writing Report 19... When handed in at Local Office 15-9-47 Port of Glasgow Received at London Office 17 SEP 1947
 No. in Survey held at Motherwell Date, First Survey 11.10.45 Last Survey 26.4.46
 Reg. Book on the (Number of Visits) 14
 Yard No. 612 Built at Glasgow By whom built A. Stephen & Sons, Ltd. When built
 Boilers made at Motherwell By whom made Broomside Boiler Works Co. Ltd. Boiler No. 1898A When made 1946
 Owners Port belonging to

VERTICAL DONKEY BOILER No. One Description *Clarkson Exh. gas BEGATON 1/50* Manufacturers of steel *Colville, Ltd.*
 Made at *Motherwell* By whom made *Broomside Boiler Works Co. Ltd.* When made 1946 Where fixed Working pressure 120 lb.
 tested by hydraulic pressure 250 lb. Date of test 26-4-46 No. of Certificate 22164 Fire grate area - Description of safety valves 2 1/2" *drift*
 No. of safety valves 1 Area of each 9.80" Pressure to which they are adjusted If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler Diameter of donkey boiler 7'-7" *HEIGHT 17'-6"* Material of shell plates *steel* Thickness 1/2"
 Range of tensile strength 28/32 *lbs* Description of riveting long. seams *DR DBS* Diameter of rivet holes 13/16" Whether punched or drilled *drilled* Pitch of rivets *app. 3.268" low 3.35"* Lap of platin - Per centage of strength of joint Working pressure of shell by rules *app. 120 lb.* Thickness of shell crown plates 1 1/16" Radius of do. 6'-6" No. of stays to do. *none* Diameter of stays - Diameter of furnace - *Top 4'-5 5/8" Bottom* Length of furnace 7'-8" Thickness of furnace side plates 1 3/8" Description of joint *weld* Working pressure of furnace by rules *app. 120 lb.* Thickness of Ogee ring 1 1/4" Working pressure of Ogee ring by rules *app. 120 lb.* Thickness of furnace crown plates 1 3/8" Radius of do. 4'-0" Stayed by *no stays* Diameter of uptake 2'-5 3/4" Thickness of uptake plates 5/8" Thickness of tube plates 1 3/8" Mean pitch of stay tubes in nest *none* Pitch in outer vertical rows -
 Diameter of tube holes *FRONT 4" THIMBLE BACK 3 1/4" CIRCULATING* Working pressure of tube plates by rules *app. 120 lb.* Tubes: Material *steel*
 External diameter 4" x 3 1/4" Thickness 8 x 99 No. of threads per inch - Pitch of Tubes 4 3/8" x 6.91"
 Working pressure by rules *app. 120 lb.* Manhole compensation; Size of opening in shell plate *CROWN 16" x 12"* Section of compensating ring *none* No. of rivets and diameter of rivet holes - Outer raw pitch at ends -

The foregoing is a correct description,
 for THE BROOMSIDE BOILER WORKS Coy. Ltd.
 John Marshall. Manufacturer.

Dates of Survey while building
 During progress of work in shops 1945. Oct 1-16. Nov 20-30 Dec 7-20-26.
 During erection on board vessel 1946 Jan 16. Feb 6-21. Mar 9-14-16.
 Total No. of Visits 14

Drawing No. 4787

Is the approved plan of boiler forwarded herewith Yes with Report 72102 - HAWAII.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the Rules and approved plans, and the materials and workmanship are good. It has been sent to the shipbuilders for installation in the vessel.

This boiler has been fitted on board under special survey. Safety valves adjusted to 120 lb and accumulation trials carried out with satisfactory results.

Motherwell
Glasgow
 20.5.48

Survey Fee ... £ 6 : - : } When applied for 16 SEP 1947
 Travelling Expenses (if any) £ - : 10 : } When received 19

Committee's Minute
 Assigned *Deferred for comp.*

M. J. B. ...
 Engineer Surveyor to Lloyd's Register of Shipping.



Lloyd's Register Foundation