

REPORT ON BOILERS.

No. 53651
12 JUL 1933

Received at London Office
Port of Glasgow.
No. in Survey held at Annan
Date, First Survey 7. 4. 33 Last Survey 28. 6. 1933
Boiler No 12466 T.S.M.V. PORT CHALMERS
Built at Newcastle By whom built Hunter & Wigham
When built 1933.
Boilers made at By whom made When made
Owners Commonwealth & Dominion Line Ltd. Port belonging to London

VERTICAL DONKEY BOILER— No. 12466 Description Vertical Manufacturers of steel Steel Works of Scotland
Made at Annan By whom made Hunter & Wigham When made 1933 Where fixed Eng. Room p. 214 Working pressure 105 lbs.
Tested by hydraulic pressure to 200 Date of test 28/6/33 No. of Certificate 19243 Fire grate area 18.7 Description of safety valves Indirect spring
No. of safety valves 2 Area of each 4.9 sq. Pressure to which they are adjusted 100 lbs. If fitted with easing gear Yes If steam from main boilers can
enter the donkey boiler Yes Diameter of donkey boiler 6'-0" Length 14'-9" Material of shell plates Steel Thickness 7/16" 5/8"
Range of tensile strength 28 to 52 Tons Description of riveting long. seams D.R.L. Diameter of rivet holes 3/8" Whether punched or
drilled Pitch of rivets 2.519, 2.69, 2.673 Lap of plating 3/8" Per centage of strength of joint Rivets 87.1% Working pressure of shell by
Plates 89%
Manuf. plates 108 lbs. Thickness of shell crown plates 3/8" Radius of do. 5'-0" No. of stays to do. Diameter of stays Working
Pressure—Top Bottom 5'-0" Length of furnace Thickness of furnace side plates 1/2" Description of joint Working
Pressure of furnace by rules 137.8 lbs. Thickness of Ogee ring 1/8" Working pressure of Ogee ring by rules 10.2 lbs. Thickness of furnace
crown plates 1/2" Radius of do. 2'-6" Stayed by Hemispherical Diameter of uptake 15" x 18" Thickness of uptake
plates 9/16" Thickness of tube plates front 7/8" Mean pitch of stay tubes in nest 10.96 Pitch in outer vertical rows 7.5
Diameter of tube holes FRONT stay 2 1/8" BACK stay 2 1/2" Working pressure of tube plates by rules 503.6 & 108.6 Tubes: Material L.W. IRON.
plain 2 1/8" stay 2 1/2" Thickness plain 1 1/2" No. of threads per inch 9 Pitch of tubes 3 1/8" & 3 1/2"
External diameter stay 2 1/2" Thickness stay 1 1/2" No. of threads per inch 9 Pitch of tubes 3 1/8" & 3 1/2"
Working pressure by rules 125 lbs. Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating
ring 6" x 3 1/2" No. of rivets and diameter of rivet holes 36 @ 3/8" Outer row pitch at ends 3 1/8"

FOR COCHRAN & CO., ANNAN, LTD.

The foregoing is a correct description.

W. R. R. Manufacturer
GENERAL WORKS MANAGER

Dates During progress of work in shops— 1933 Apr. 7. 28 May. 26 June. 1. 6. 28 Drawing No. 19751.
Survey while building During erection on board vessel —
Total No. of visits 6 Is the approved plan of boiler forwarded herewith

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The materials & workmanship are good. The boiler has been constructed under special supervision in accordance with the Rules. It is intended for a vessel building by Messrs Hunter & Wigham Richardson.

This boiler has been satisfactorily installed in the T.S.M.V. "PORT CHALMERS"; the safety valves adjusted under steam, and the boiler examined under steam and found satisfactory.

H. B. Forster,
Newcastle-on-Tyne,
27th December, 1933

Survey Fee ... £ 4-4-0 When applied for 19
Travelling Expenses (if any) £ : : When received 19

MONTHLY ACCOUNT

Committee's Minute GLASGOW 11 JUL 1933

Assigned TRANSMIT TO LONDON

Engineer Surveyor to Lloyd's Register of Shipping.

see Ann Rpt. 90866