

# REPORT ON BOILERS.

Sld. No 32008

Sld. No. 57517

7 OCT 1936

Writing Report 30.9.36 to 36 When handed in at Local Office 3. 10. 36 Port of Glasgow Sld. 13. 1. 37  
 in Survey held at Annan Date, First Survey 3. 6. 36 Last Survey 29.9. 1936  
 on the Boiler No 13353 ~~M.V. STATION~~ ~~see memo attached~~ Gross 4852  
 now installed in the M.V. EMPIRE WILSON By whom built Wm Dufford & Sons Ltd When built 1934.  
 Built at Dundee By whom made Cochran & Co (Annan) Ltd When made 1934.  
 Made at Annan By whom made Cochran & Co (Annan) Ltd When made 1934.  
 Made at Cheltenham Steamship Management Co Ltd Port belonging to London.

VERTICAL DONKEY BOILER— No. 1 Description Cochran Manufacturers of steel Skel C° S'land.  
 at Annan By whom made Cochran & Co Annan When made 1936 Where fixed Necess. Working pressure 120  
 tested by hydraulic pressure to 230 Date of test 29.9.36 No. of Certificate 19817 Fire grate area Description of safety valves 8.7.  
 of safety valves 2 Area of each 7.06 Pressure to which they are adjusted 120 If fitted with easing gear 70 If steam from main boilers can  
 the donkey boiler Diameter of donkey boiler 8'-0" Length 17'-3" Material of shell plates 8 Thickness 2 1/32" - 13/16"  
 of tensile strength 28.32 Description of riveting long. seams W.R.L. Diameter of rivet holes 1 3/4" Whether punched or  
 led drilled Pitch of rivets 3", 3.154", 3.164" Lap of plating 5" Per centage of strength of joint Rivets 66.2 Working pressure of shell by  
 s 125.4 Thickness of shell crown plates 1 3/4" - 19/32 Radius of do. 4'-0" No. of stays to do. none Diameter of stays - Diameter of  
 uce—Top Bottom 7'-0" Length of furnace Thickness of furnace side plates 23/32" Description of joint S'less Working  
 ure of furnace by rules 144 Thickness of Ogee ring 1 3/4" Working pressure of Ogee ring by rules 124.4 Thickness of furnace  
 on plates 23/32" Radius of do. 3'-6" Stayed by Hemisphere Diameter of uptake 21 1/2" x 25" Thickness of uptake  
 tes 9/16" Thickness of tube plates front 1 1/4" back 1 1/4" Mean pitch of stay tubes in nest 9.48, 7.97, 8" Pitch in outer vertical rows 6.374, 5.25"  
 diameter of tube holes FRONT stay 2 7/8 - 1 1/8 BACK stay 2 - 1 1/2 Working pressure of tube plates by rules F122 B 196 Tubes: Material 8.  
 internal diameter stay 2 - 1 1/2 plain 2 7/8 - 1 1/8 Thickness stay 11/32 plain 10 W.C. No. of threads per inch 9 Pitch of tubes 3.187 x 3.13, 2 11/16 x 2 5/8  
 working pressure by rules 215, 165, 146 Manhole compensation: Size of opening in shell plate 16" x 12" Section of compensating  
 g 28" dia x 3 1/2" No. of rivets and diameter of rivet holes 36 - 1 1/2 Outer row pitch at ends 3.89"

The foregoing is a correct description,

Calder.

Manufacturer.

Dates During progress of work in shops 1936 June: 3. 15. 18. 23. 25 July: 7. 14. 16. 30 Drawing No. E33292  
 During erection on board vessel Aug: 5. 13. 19. 28 Sep: 10. 17. 24. 29  
 Total No. of visits 17  
 Is the approved plan of boiler forwarded herewith Copy  
 See Sld Report No 57252 Boiler No 13300

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the approved plan and the Society's Rules and requirements the materials and workmanship are good.

The boiler is intended for Mr Dufford & Sons Ltd No 630.

3/10/36 This boiler has been recently fixed on board the vessel examined under Steam, safety valves adjusted to working pressure & accumulation test carried out Satisfactorily

In recommendation please see incluy. Rpt.

W.D. Fraser.

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

Jas Cairns,  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned,

