

REPORT ON BOILERS.

No. **6929**
THU. JUL. 27. 1911

Date of writing Report _____ 19 _____ When handed in at Local Office **26. 7. 11** Port of **MIDDLESBROUGH-ON-TEES.**
 No. in Survey held at **Middlesbrough** Date, First Survey **27th March** Last Survey **18th July 1911**
 Reg. Book. _____ on the **Donkey Boiler for S.S. "Eckwood" (W. Markham ton 554.189)** (Number of Visits **7**) } Gross }
 Master **Donkey** Built at _____ By whom built _____ When built _____ } Net }
 Boiler made at **Middlesbrough** By whom made **Thos. D. Ridley & Sons** When made **1911**
 Owners _____ Port belonging to _____

VERTICAL DONKEY BOILER— No. **One** Description **Vertical** Manufacturers of steel **John Spencer & Sons South Durham, Co. Durham**
 Made at **Middlesbrough** By whom made **Thos. D. Ridley & Sons** When made **1911** Where fixed **Stoke hold** Working pressure **100 lbs**
 tested by hydraulic pressure to **200** Date of test **18. 7. 11.** No. of Certificate **4692** Fire grate area **21 sq** Description of safety valves **Direct spring**
 No. of safety valves **one** Area of each **11.04** Pressure to which they are adjusted **100 lbs** If fitted with easing gear **yes** If steam from main boilers can enter the donkey boiler **no** Dia. of donkey boiler **6'-0"** Length **12'-6"** Material of shell plates **Steel** Thickness **9/16"** Range of tensile strength **28-32** Descrip. of riveting long. seams **D.R. Lap** Dia. of rivet holes **13/16"** Whether punched or drilled **drilled** Pitch of rivets **2 3/4"**
 Lap of plating **4 1/4"** Per centage of strength of joint **57.4** Working pressure of shell by rules **115 lbs** Thickness of shell crown plates **9/16"**
 Radius of do. **5'-9"** No. of Stays to do. **5** Dia. of stays **2" eff.** Diameter of furnace Top **4'-8"** Bottom **5'-4"** Length of furnace **4'-8"**
 Thickness of furnace plates **5/8"** Description of joint **S.R. Lap** Working pressure of furnace by rules **109 lbs** Thickness of furnace crown plates **21/32"** Radius of do. **5'-9"** Stayed by **Five 2" stays Int.** Diameter of uptake **14"** Thickness of uptake plates **7/16"**
 Thickness of water tubes **3/8"**

The foregoing is a correct description,
THOS. D. RIDLEY & SONS Manufacturer.

Dates of Survey while building { During progress of work in shops -- } **1911 Mar. 27. Apr. 8. May 25. June 7. 28. July 17. 18.**
 { During erection on board vessel --- }
 Total No. of visits **7**

Is the approved plan of boiler forwarded herewith **with plans Eckwood**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 This boiler has been constructed under Special Survey, is of good material and workmanship, and has been tested by hydraulic pressure with satisfactory results.

This boiler has now been satisfactorily secured on board, the safety valve adjusted & the boiler examined under steam.

SURVEY REQUEST NO. **397** ATTACHED.

Survey Fee £ **2 : 2** : } When applied for, **26. 7. 11**
 Travelling Expenses (if any) £ : : } When received, **19. 8. 11**

L. Kerr & J. B. Dawkins
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute **FRI. SEP. 1-1911**

Assigned **See Minute on Mdb. Rpt 6983**

