

REPORT ON BOILERS.

Received at London Office TUE APR. 10 1923

Date of writing Report 19 When handed in at Local Office 7. 4. 23 19 Port of MIDDLESBRO'

No. in Reg. Book. Survey held at Stockton-on-Tees Date, First Survey 9th February Last Survey 4th April 1923

on the S.S. "HARFRY." (Number of Visits 12) (S.S. No 252) Tons Gross 909 Net 438

Master Built at Goole By whom built Goole S. B. Co Ltd When built 1924

Boilers made at Stockton By whom made Messrs Riley Bros Ltd (No 5440) When made 1923

Owners J. Hargreaves & Co. Port belonging to

VERTICAL DONKEY BOILER— No. *one* Description *2 cross tubes* Manufacturers of steel *South Durham S. Co (malleable)*

Made at *Stockton* By whom made *Messrs Riley Bros Ltd* When made *1923* Where fixed *Stokehold* Working pressure *100*

tested by hydraulic pressure to *200* Date of test *4.4.23* No. of Certificate *6295* Fire grate area *22 1/2* Description of safety valves *Spring loaded*

No. of safety valves *2* Area of each *3.140* Pressure to which they are adjusted *100 lb* If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *no* Dia. of donkey boiler *6'-0"* Length *10'-0"* Material of shell plates *steel* Thickness *13/32"* Range of tensile strength *28-32* Descrip. of riveting long. seams *2 Riv. lap* Dia. of rivet holes *13/16"* Whether punched or drilled *drilled* Pitch of rivets *2 1/8"*

Lap of plating *4 1/2"* Per centage of strength of joint Rivets *77.3* Working pressure of shell by rules *103* Thickness of shell crown plates *1/2"* Plates *69.89*

Radius of do. *5'-0"* No. of Stays to do. *6* Dia. of stays *1 3/8"* Diameter of furnace Top *4'-10"* Bottom *5'-6"* Length of furnace *3'-11"*

Thickness of furnace plates *5/8"* Description of joint *Angl Riv lap* Working pressure of furnace by rules *104* Thickness of furnace crown plates *5/8"* Radius of do. *5'-0"* Stayed by *as shell crown* Diameter of uptake *16"* Thickness of uptake plates *7/8"*

Thickness of water tubes *3/8"*

The foregoing is a correct description of the boiler described.

FOR RILEY BROS. (BOILERMAKERS) LIMITED.

J. H. Shields Manufacturer. **SECRETARY.**

Dates of Survey while building { During progress of work in shops - - } 1923 Feb. 9. 16. 23. Mar 1. 5. 7. 13. 15. 22. 24. 28. Apr 4

{ During erection on board vessel - - } (see Hull Rpt. No 34998)

Total No. of visits *12* Is the approved plan of boiler forwarded herewith *yes*

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

The boiler has been properly fitted & secured on board the S.S. "Harfy". Its safety valves have been adjusted under steam & tested for accumulation.

P. Fitzgerald.

Survey Fee ... £ *4-4-0* When applied for, *monthly safe*

Travelling Expenses (if any) £ ... When received, 19...

Committee's Minute
Assigned

PRIMAR 71924

RETAIN

W. Morrison
Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register Foundation

W443-0114