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REPORT ON BOILERS.

No. 64953

WED. OCT. 15. 1913
THU. APR. 8. 1915

Date of writing Report 9th Oct. 1913 When handed in at Local Office OCT 14 1913 Received at London Office Port of NEWCASTLE ON TYNE.

No. in Reg. Book. 80. Survey held at Gateshead Date, First Survey 29th July 1913 Last Survey 9th October 1913 (Number of Visits) on the Donkey Boiler for Bulmerstier & Wains No. 451 y. S.S. 'FALSTRIA'

Tons { Gross / Net

Master J. B. Cortsen Built at Glasgow By whom built Harland & Wolff When built 1915

Boilers made at Gateshead By whom made Clarke Chapman & Co No. 2312 & When made 1913

Owners Aktie Det Ostasiatiske Kompagnie Port belonging to Copenhagen

VERTICAL DONKEY BOILER — No. 1 Description Cross-tube Manufacturers of steel Bochumer Verein Schulz Knaudt

Made at Gateshead By whom made Clarke Chapman & Co When made 1913 Where fixed Engine Room Working pressure 80 lbs

Tested by hydraulic pressure to 160 lbs Date of test 9-10-13 No. of Certificate 8570 Fire grate area Oil Fuel Description of safety valves Pair spring loaded

No. of safety valves 2 Area of each 3.14 □" Pressure to which they are adjusted 80 lbs If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler ✓ Dia. of donkey boiler 4'-3" Length 9'-0" Material of shell plates Steel Thickness 3/8" Range of tensile strength 28-32 Descrip. of riveting long. seams D. Lap Dia. of rivet holes 3/4" Whether punched or drilled drilled Pitch of rivets 2 3/4"

Lap of plating 3 5/8" Per centage of strength of joint Rivets 72.5 Plates 72.7 Working pressure of shell by rules 116 lbs Thickness of shell crown plates 1/2"

Radius of do. 5'-0" No. of Stays to do. 3 Dia. of stays 1 3/8" Diameter of furnace Top 3'-2 3/4" Bottom 3'-7" Length of furnace 3'-10"

Thickness of furnace plates 7/16" Description of joint D. Lap Working pressure of furnace by rules 104 lbs Thickness of furnace crown plates 7/16" Radius of do. 5'-0" Stayed by as above Diameter of uptake 12" Thickness of uptake plates 3/8"

Thickness of water tubes 3/8".

The foregoing is a correct description.

For CLARKE, CHAPMAN & Co. LTD.

W. Wooderson Director.

Manufacturer.

Dates of Survey while Building — During progress of work in shops: 1913 Jul. 29.31. Aug 8.11.25. Sep. 10.25. Oct. 9. During erection on board vessel: Total No. of visits 8

Is the approved plan of boiler forwarded herewith Yes

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This donkey boiler has been constructed under special survey & the materials and workmanship are sound & good.

This boiler has been securely fitted aboard and its safety valves adjusted under steam.

Survey Fee ... ... £ 2 : 2 0 When applied for, Monthly 19

Travelling Expenses (if any) £ : : When received, 17 Apl 1915 19/4/15

P. J. Brown.

Thomas Field

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW

Assigned

Boiler No 4514 G