REPORT ON BOILERS.

No. 1017.

Received at London Office FRI. 10 SEP. 1921

writing Report 8th Sept. 1921 When handed in at Local Office 8th Sept. 1921 Port of Southampton

in Survey held at Southampton & Portsmouth Date, First Survey 4th April Last Survey 5th Sept. 1921

Book. (Number of Visits 12)

on the T.S.S. "ARABIC" ex. "BERLIN" Tons Gross 17,324 Net 9,834

Built at Bremen By whom built A.G. "Weser" When built 1908

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tered Horse Power Owners The White Star Line Port belonging to Liverpool

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LTITUBULAR BOILERS—MAIN, ~~SINGLE ENDED~~ (I.S.E.) .—Manufacturers of Steel —

er for record —) **Total Heating Surface of Boilers** 2,583 Is forced draft fitted No **No. and Description of**

ers One Single Ended **Working Pressure** 220 Tested by hydraulic pressure to — Date of test —

of Certificate — Can each boiler be worked separately yes **Area of fire grate in ~~each~~ boiler** 72 ☐ft No. and Description of

y valves to each boiler 2 Spring loaded Area of each valve 12·192 ☐" Pressure to which they are adjusted 220 lb.

they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler —

llest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 15'-5·35" Length 10'-9"

erial of shell plates Steel Thickness 1·52" Range of tensile strength — Are the shell plates welded or flanged No

crip. of riveting: cir. seams D.R. LAP. long. seams Q.R. DOUBLE BUTTS. Diameter of rivet holes in long. seams 1·57" Pitch of rivets 20·07"

of plates or width of butt straps 30·15" Per centages of strength of longitudinal joint rivets 103 plate 92 Working pressure of shell by

s 242 Size of manhole in shell 11·81" X 15·74" Size of compensating ring 3'-8" X 3'-0" **No. and Description of Furnaces in each**

ler 3 Corrugated Material Steel Outside diameter 4'-1·21" Length of plain part top / bottom Thickness of plates crown bottom ·72"

scription of longitudinal joint Welded No. of strengthening rings — Working pressure of furnace by the rules 243 Combustion chamber

tes: Material Steel Thickness: Sides ·7" Back ·67" Top ·7" Bottom ·98" Pitch of stays to ditto: Sides 7"x7" Back 7"x7"

p 7"X8·6" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 277 Material of stays Steel ~~Diameter~~ AREA at

allest part 2·4 ☐" Area supported by each stay 60·2 ☐" Working pressure by rules 358 End plates in steam space: Material Steel Thickness 1"

tch of stays 15·74"X14·56" How are stays secured DOUBLE NUTS & WASHERS Working pressure by rules 222 Material of stays Steel ~~Diameter~~ AREA at smallest part 7·06 ☐"

ea supported by each stay 229·17 ☐" Working pressure by rules 320 Material of Front plates at bottom Steel Thickness 1" Material of

wer back plate Steel Thickness ·94" Greatest pitch of stays 14"x7" Working pressure of plate by rules 282 Diameter of tubes 3"

tch of tubes 4·05"X4·09" Material of tube plates Steel Thickness: Front 1·06" Back 1·02" Mean pitch of stays 8·14" Pitch across wide

ter spaces 14·01" Working pressures by rules 540 lb. Girders to Chamber tops: Material Steel Depth and thickness of

rder at centre 9·84"X1·8" Length as per rule 29·52" Distance apart 8·66" Number and pitch of Stays in each 3-7"

Working pressure by rules 323 Superheater or Steam chest; how connected to boiler ~~Can the superheater be shut off and the boiler worked~~

parately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

les Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

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ERTICAL DONKEY BOILER— No. Description Manufacturers of steel

Made at By whom made When made Where fixed Working pressure

sted by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of safety valves

o. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can

ter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile

trength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

Lap of plating Per centage of strength of joint Rivets Plates Working pressure of shell by rules Thickness of shell crown plates

Radius of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace

Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown

lates Radius of do. Stayed by Diameter of uptake Thickness of uptake plates

Thickness of water tubes .

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building: During progress of work in shops - - ; During erection on board vessel - - - ; Total No. of visits

A.H. Boyle

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

GENERAL REMARKS (*State quality of workmanship, opinions as to class, &c.*

SAFETY VALVES

THICKNESS OF ADJUSTING WASHERS

No. 7. BOILER

P = 11/32". S = 3/8"

No. 4. BOILER

7/16" 7/16"
3/16" 9/32" 17/32"

No. 5. BOILER

1/2" 1/2"
3/8" 5/16" 11/32"

No. 6. BOILER

9/32" 1/2"
1/2" 1/2" 17/32"

No. 1. BOILER

7/16" 15/32"
15/32" 17/32" 29/64"

No. 2. BOILER

19/32" 1/2"
1/2" 1/2" 15/32"

No. 3. BOILER

1/2" 1/4"
13/32" 5/8" 19/32"

A. H. Boyle

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee... £ : : When applied for,
Special ... ... £ : : ....19....
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : : ....19....

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

Committee's Minute FRI. 24 MAR 1922

Assigned FRI. 21 APR. 1922 FRI. 4 AUG. 1922

TUE. 12 DEC. 1922
FRI. 9 MAR. 1923

Rpt. 13.

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Port of

No. in Reg. Book 8685

Owners H

Yard No.

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Branch cab

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Cargo light

DESCRIPT

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