

# REPORT

No.

Date of writing Report 19 When handed in at Local Office

No. in Survey held at Reg. Book. on the *S.S. "PARIA"* Date, Fri. Last Survey 19 (Number of Visits )

Master Built at *Bremerhaven* By whom built *Norddeutsche Werke (Richters)* Tons Gross Net 1920

Engines made at *Bremen* By whom made *A. G. Weser* when made

Boilers made at *as* By whom made *as* when made

Registered Horse Power *1480* Owners Port belonging to

Nom. Horse Power as per Section 28 *580* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

ENGINES, &c.—Description of Engines *Triple* No. of Cylinders *Three* No. of Cranks *Three*  
Dia. of Cylinders *18 3/4 - 4 1/2 - 15 5/8* Length of Stroke *53 1/2* Revs. per minute *70* Dia. of Screw shaft *as per rule 4 1/2* Material of screw shaft *Ingot Steel*  
Is the screw shaft fitted with a continuous liner the whole length of the stern tube *no liner* Is the after end of the liner made water tight in the propeller boss *Yes* If the liner is in more than one length are the joints burned *Yes* If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *Yes*  
liners are fitted, is the shaft lapped or protected between the liners *Yes* Length of stern bush *14 1/2* If two *stem bush*  
Diam. of Tunnel shaft *as per rule 3 1/2* Dia. of Crank shaft journals *as per rule 4 1/2* Dia. of Crank pin *4 1/2* Size of Crank webs *as fitted 4 1/2* Dia. of thrust shaft under collars *3 1/2* Dia. of screw *1 1/2* Pitch of Screw *18* No. of Blades *4* State whether moveable *Yes* Total surface *as fitted 3 1/2*  
No. of Feed pumps *2* Diameter of ditto *100* Stroke *700* Can one be overhauled while the other is at work *Yes*  
No. of Bilge pumps *2* Diameter of ditto *100* Stroke *700* Can one be overhauled while the other is at work *Yes*  
No. of Donkey Engines *Double wheel type 250 x 180 x 5 1/2* Sizes of Pumps *as fitted 200 x 140 x 2 1/2* No. and size of Suctions connected to both Bilge and Donkey pumps *In Engine Room 4 x 90 (3 1/2)* In Holds, &c. *2 x 90 (3 1/2) each hold, 3 1/2 tunnel well*

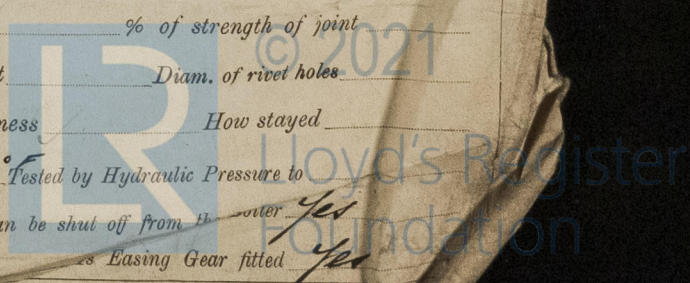
No. of Bilge Injections *1* sizes *200* Connected to condenser, or to circulating pump *Ballast donkey direct to either side 90 1/2 the*  
Are all the bilge suction pipes fitted with roses *Yes* Are the roses in Engine room always accessible *Yes* Are the sluices on Engine room bulkheads always accessible *Yes*  
Are all connections with the sea direct on the skin of the ship *Yes* Are they Valves or Cocks *both*  
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates *Yes* Are the Discharge Pipes above or below the deep water line *above*  
Are they each fitted with a Discharge Valve always accessible on the plating of the vessel *Yes* Are the Blow Off Cocks fitted with a spigot and brass covering plate *Yes*  
What pipes are carried through the bunkers *Yes* How are they protected *Yes*  
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *Yes*  
Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges *Yes*  
Is the Screw Shaft Tunnel watertight *Yes* Is it fitted with a watertight door *Yes* worked from *top platform*

BOILERS, &c.—(Letter for record *S*) Manufacturers of Steel  
Total Heating Surface of Boilers *8070 sq ft* Is Forced Draft fitted *Yes* No. and Description of Boilers *3 Simple end multitubular*  
Working Pressure *206 lbs* Tested by hydraulic pressure to *195 kg by G.L.* Date of test *1919* No. of Certificate *Certificate issued*  
Can each boiler be worked separately *Yes* Area of fire grate in each boiler *60 sq ft* No. and Description of Safety Valves to each boiler *2 direct spring* Area of each valve *12.5 sq in* Pressure to which they are adjusted *4550* Are they fitted with easing gear *Yes*  
Smallest distance between boilers or uptakes and bunkers or woodwork *well clear* Mean dia. of boilers *14 1/2* Length *22'-0"* Material of shell plates *Steel*  
Thickness *33* Range of tensile strength *45-53 kg* Are the shell plates welded or flanged *No* Descrip. of riveting: cir. seams *lap butt*  
long. seams *scalped edges* Diameter of rivet holes in long. seams *as per rule 1 1/4* Pitch of rivets *as per rule 1 1/4* Lap of plates or width of butt straps *as per rule 1 1/4*  
Per centages of strength of longitudinal joint *as per rule 1 1/4* Working pressure of shell by rules *14.5 kg* Size of manhole in shell *430*  
Size of compensating ring *320 x 33* No. and Description of Furnaces in each boiler *3 Morrison* Material *Steel* Outside diameter *1135*  
Length of plain part *as per rule 1 1/4* Thickness of plates *as per rule 1 1/4* Description of longitudinal joint *Weld* No. of strengthening rings *as per rule 1 1/4*  
Working pressure of furnace by the rules *15.6 kg* Combustion chamber plates: Material *Steel* Thickness: Sides *1 1/2* Back *1 1/2* Top *1 1/2* Bottom *2 1/2*  
Pitch of stays to ditto: Sides *190 x 200* Back *195 x 206* Top *90 x 200* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *19.7 kg*  
Material of stay *Steel* Area at smallest part *134 sq in* Area supported by each stay *40000* Working pressure by rules *17 kg* End plates in steam space: *as per rule 1 1/4*  
Material *Steel* Thickness *29* Pitch of stays *390 x 435* How are stays secured *as per rule 1 1/4* Working pressure by rules *16.5 kg* Material of stays *Steel*  
Area at smallest part *4300* Area supported by each stay *60000* Working pressure by rules *15.1* Material of Front plates at bottom *Steel*  
Thickness *2 1/2* Material of Lower back plate *Steel* Thickness *25.5* Greatest pitch of stays *400 x 200* Working pressure of plate by rules *14.5*  
Diameter of tubes *3 1/2* Pitch of tubes *103 x 105* Material of tube plates *Steel* Thickness: Front *2 1/2* Back *2 1/2* Mean pitch of stays *315 x 206*  
Pitch across wide water spaces *355* Working pressures by rules *15.1 kg* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *240 x 34* Length as per rule *800* Distance apart *200* Number and pitch of stays in each *3 @ 190*  
Working pressure by rules *14.5 kg* Steam dome: description of joint to shell *no dome fitted* % of strength of joint *as per rule 1 1/4*  
Diameter *as per rule 1 1/4* Thickness of shell plates *as per rule 1 1/4* Material *as per rule 1 1/4* Description of longitudinal joint *as per rule 1 1/4* Diam. of rivet holes *as per rule 1 1/4*  
Pitch of rivets *as per rule 1 1/4* Working pressure of shell by rules *as per rule 1 1/4* Crown plates *as per rule 1 1/4* Thickness *as per rule 1 1/4* How stayed *as per rule 1 1/4*

SUPERHEATER. Type *Schmidt* Date of Approval of Plan *Superheater 6 300°C - 5 1/2 °F* Tested by Hydraulic Pressure to *as per rule 1 1/4*  
Date of Test *as per rule 1 1/4* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the boiler *Yes*  
Diameter of Safety Valve *as per rule 1 1/4* Pressure to which each is adjusted *as per rule 1 1/4* Easing Gear fitted *Yes*

Is a Report also sent on the Hull of the Ship?

009067-009073-0348





VI

BOILER

Manufacturers of Steel

B

BY

is a report now forwarded?

PART OF 1R. State the article.

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

Is the approved plan of main boiler forwarded herewith No

" " " donkey " " "

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods  
Connecting rods Crank shaft Thrust shaft Tunnel shafts Screw shaft Propeller  
Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts  
Completion of pumping arrangements Boilers fixed Engines tried under steam  
Completion of fitting sea connections Stern tube Screw shaft and propeller  
Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft Identification Mark on Do. ✓ Material of Thrust shaft Identification Mark on Do. ✓

Material of Tunnel shafts Identification Marks on Do. ✓ Material of Screw shafts Identification Marks on Do. ✓

Material of Steam Pipes Steel by Mannesmann-Werke Test pressure 2 1/2 x 100 lb. by G. L. Surveys

Is an installation fitted for burning oil fuel No Is the flash point of the oil to be used over 150° F.

Have the requirements of Section 49 of the Rules been complied with ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel S. "Uttor" 11th/160

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been constructed under the supervision of Surveyors & the permanent Lloyd

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

E. J. Stoddart.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. JUL. 28 1921

Assigned



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