

REPORT

No. _____

Date of writing Report _____ 19 _____ When handed in at Local Office _____

Office THU 23 JUN 1921

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

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

Engines made at Bremen By whom made A.G. Weser when made _____
Boilers made at _____ By whom made _____ when made _____

Registered Horse Power 1415 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 6/8 - 7 5/8 Length of Stroke 53 1/2 Revs. per minute 70 Dia. of Screw shaft 4 1/2 Material of screw shaft 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 1413 If two 1413 neck bush
Diameter of Tunnel shaft 3 1/2 Dia. of Crank shaft journals 4 1/2 Dia. of Crank pin 4 1/2 Size of Crank webs _____ Dia. of thrust shaft under collars 3 1/2 Dia. of screw 1 1/2 Pitch of Screw _____ No. of Blades 4 State whether moceable _____ Total surface _____

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 110 Stroke 700 Can one be overhauled while the other is at work Yes
No. of Donkey Engines 2 Sizes of Pumps 200 x 140 x 225 No. and size of Suctions connected to both Bilge and Donkey pumps 2 x 90 (3 1/2)

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 degrees
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 _____
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 kg Tested by hydraulic pressure to 195 kg by G.L. Date of test 1919 No. of Certificat 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 ft Pressure to which they are adjusted _____ Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork well clear Mean dia. of boilers 45.50 Length 36.50 Material of shell plates Steel
Thickness 33 Range of tensile strength 45-53 kg/cm² Are the shell plates welded or flanged No Descrip. of riveting: cir. seams lap butt
long. seams scalped edge Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Lap of plates or width of butt straps _____

Per centages of strength of longitudinal joint _____ 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 _____ Thickness of plates _____ Description of longitudinal joint Weld No. of strengthening rings _____

Working pressure of furnace by the rules 15.6 kg Combustion chamber plates: Material Steel Thickness: Sides 17.5 Back 18 Top 17.5 Bottom 23
Pitch of stays to ditto: Sides 190 x 200 Back 195 x 206 Top 190 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 ft Area supported by each stay 40000 Working pressure by rules 17 kg End plates in steam space: Material Steel Thickness 29 Pitch of stays 390 x 435 How are stays secured Nuts Working pressure by rules 16.5 kg Material of stays Steel

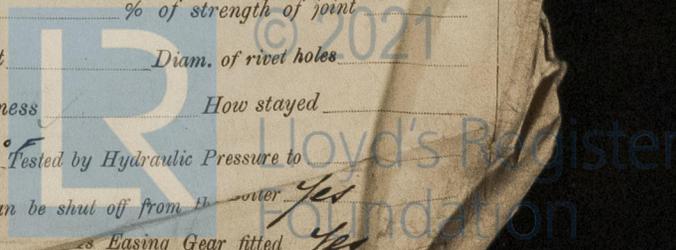
Area at smallest part 4300 Area supported by each stay 60000 Working pressure by rules 15.1 Material of Front plates at bottom Steel
Thickness 27.5 Material of Lower back plate Steel Thickness 25.5 Greatest pitch of stays 400 x 200 Working pressure of plate by rules 14.5
Diameter of tubes 3 1/8 Pitch of tubes 103 x 105 Material of tube plates Steel Thickness: Front 27.5 Back 23 Mean pitch of stays 375 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 _____

Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____
Pitch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

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

009067-004073-0348



is a report now forwarded?

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 W.P. by G.L. Surveys Is an installation fitted for burning oil fuel 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 If so, state name of vessel

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

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

E.J. Stoddart, Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute Assigned FRI. JUL. 28 1921

