

REPORT ON MACHINERY.

No. 40306

Port of *Rotterdam*

THUR. 14 JUL 1904

Received at London Office

No. in Survey held at *Alblasserden*

Date, first Survey *28 May*

Last Survey *2 July* 1904.

Reg. Book.

on the *S. S. Greenwood*

(Number of Visits *four*)

Master

Built at *Cepelle & Co. Upsal* By whom built *A. Vuyk*

Tons { Gross *1015.*
Net *609.51*
When built *1904*

Engines made at *South Shields*

By whom made *G. F. Gray*

when made *1904*

Boilers made at *D.*

By whom made *G. F. Gray*

when made *1904.*

Registered Horse Power

Owners *John Holman & Sons, Ltd.*

Port belonging to *London*

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted

Is Electric Light fitted

ENGINES, &c.—Description of Engines *To be fitted at South Shields*

Dia. of Cylinders	Length of Stroke	Revs. per minute	Dia. of Screw shaft	No. of Cylinders	No. of Cranks
Is the screw shaft fitted with a continuous liner the whole length of the stern tube in the propeller boss			Is the after end of the liner made water tight		
If the liner is in more than one length are the joints burned			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		
If two liners are fitted, is the shaft lapped or protected between the liners			Length of stern bush		
Dia. of Tunnel shaft	Dia. of Crank shaft journals	Dia. of Crank pin	Size of Crank webs	Dia. of thrust shaft under collars	
Dia. of screw	Pitch of screw	No. of blades	State whether moveable Total surface		
No. of Feed pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work		
No. of Bilge pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work		
No. of Donkey Engines	Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps			
In Engine Room					
In Holds, &c. <i>one 2 1/2" suction in each wing in forehold</i>					
No. of bilge injections	sizes	Connected to condenser, or to circulating pump	Is a separate donkey suction fitted in Engine room & size		
Are all the bilge suction pipes fitted with roses		Are the roses in Engine room always accessible	Are the sluices on Engine room bulkheads always accessible		
Are all connections with the sea direct on the skin of the ship		Are they Valves or Cocks			
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates		Are the discharge pipes above or below the deep water line			
Are they each fitted with a discharge valve always accessible on the plating of the vessel		Are the blow off cocks fitted with a spigot and brass covering plate			
What pipes are carried through the bunkers		How are they protected			
Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times					
Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges					
When were stern tube, propeller, screw shaft, and all connections examined in dry dock		Is the screw shaft tunnel watertight			
Is it fitted with a watertight door		worked from			

BOILERS, &c.—

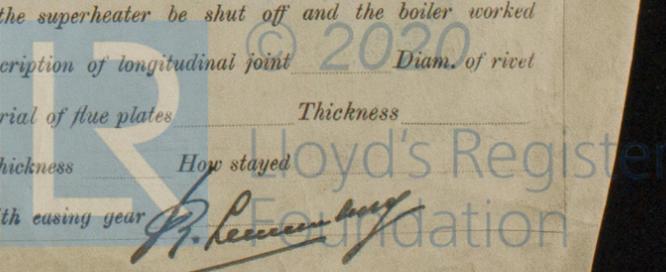
(Letter for record) Total Heating Surface of Boilers Is forced draft fitted

No. and Description of Boilers	Working Pressure	Tested by hydraulic pressure to
<i>To be fitted at South Shields</i>		
Date of test	Can each boiler be worked separately	Area of fire grate in each boiler
each boiler	Area of each valve	Pressure to which they are adjusted
Smallest distance between boilers or uptakes and bunkers or woodwork		Mean dia. of boilers
Thickness	Range of tensile strength	Are they welded or flanged
Diameter of rivet holes in long. seams		Pitch of rivets
Per centages of strength of longitudinal joint		Working pressure of shell by rules
Size of compensating ring		No. and Description of Furnaces in each boiler
Length of plain part		Thickness of plates
Working pressure of furnace by the rules		Combustion chamber plates: Material
Pitch of stays to ditto: Sides		Back
Material of stays		Diameter at smallest part
Material		Thickness
Diameter at smallest part		Area supported by each stay
Thickness		Material of Lower back plate
Diameter of tubes		Pitch of tubes
Pitch across wide water spaces		Working pressures by rules
thickness of girder at centre		Length as per rule
Working pressure by rules		Superheater or Steam chest; how connected to boiler
separately		Diameter
holes		Pitch of rivets
If stiffened with rings		Distance between rings
Working pressure of end plates		Area of safety valves to superheater

If not, state whether, and when, one will be sent? If a Report also sent on the Hull of the Ship?

W1230-0150

[2000-5-06-Copyable Ink.]



DONKEY BOILER— No. *one* Description *Vertical, cylindrical with crontube*
 Made at *Alblasserdam* By whom made *Alblasserdam Machine fabriek* When made *1904* Where fixed *Stokholms*
 Working pressure *100* tested by hydraulic pressure to *200* No. of Certificate *207* Fire grate area *29* Description of safety valves *Spring loaded*
 No. of safety valves *2* Area of each *7.07* 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 *7'-3/4* Length *12'-6"* Material of shell plates *steel* Thickness *4/16* Range of tensile
 strength *27.32 T* Descrip. of riveting long. seams *lap, treble rivets* Dia. of rivet holes *7/8"* Whether punched or drilled *drilled* Pitch of rivets *3/4"*
 Lap of plating *6"* Per centage of strength of joint Rivets *83* Thickness of shell crown plates *3/4"* Radius of do. *4'-2 1/4"* No. of Stays to do. *7*
 Dia. of stays *2"* Diameter of furnace Top *6'-3/8"* Bottom *6'-4 3/8"* Length of furnace *5'-7"* Thickness of furnace plates *49/64* Description of
 joint *welded* Thickness of furnace crown plates *3/4"* Stayed by *above stays* Working pressure of shell by rules *119 lb*
 Working pressure of furnace by rules *122 lb* Diameter of uptake *18"* Thickness of uptake plates *1/2"* Thickness of water tubes *3/8"*

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
 During progress of work in shops - - *28 May, 6, 17 June, 2 July 1904.*
 During erection on board vessel - - *9 July 04*
 Total No. of visits *five*

Is the approved plan of main boiler forwarded herewith
 " " " donkey " " "

General Remarks (State quality of workmanship, opinions as to class, &c. *The above Donkey boiler has been built in accordance with the Secretary's letter F. 6th April 1904 & E. 7 April 04. And is marked No 207 Lloyd's test 200 lbs. N.V.O. 2.7.04.* All materials tested as required.

W. F. D. van Olphen

Safety valves adjusted under steam to 100 lbs per square inch, and boiler found sound & tight under full pressure.

Certificate (if registered) 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	£	2	2	1904
Donkey Boiler Fee	£	2	2	1904
Travelling Expenses (if any) £			4	1904

£2.8.10 paid 12.7.04
When received, full paid

J. N. Bernick
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute **FRI. 12 AUG 1904** *W. F. D. van Olphen*

Assigned



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