

THU. 29 DEC. 1921

4.

REPORT ON MACHINERY.

No. 82315

6 - NOV 1919

Writing Report *S. 11. 1919* When handed in at Local Office *6. 1919* Port of *London*

Survey held at *Newbury* Date, First Survey *2nd. Sept.* Last Survey *8th Oct. 1919*

Book. *on the Triple Exp Engine 82395 of Langford* (Number of Visits *3*)

Built at *Adrianon* By whom built *Adrianon & Co Ltd* Tons *Gross 964 Net 451*

When made *1919* when made *1921*

By whom made *Plenty & Son Ltd* when made *1921*

By whom made *John S Kincaid & Co* when made *1921*

Owners *Norwegian American S.S. Co* Port belonging to *Christiana*

Horse Power *142* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

Horse Power as per Section 28 *137*

INES, &c.—Description of Engines *Triple, Surface Condensing* No. of Cylinders *3* No. of Cranks *3*

Cylinders *16 1/2 - 24 - 44* Length of Stroke *30* Revs. per minute *8.55* Dia. of Screw shaft *9 3/8* Material of *Steel*

shaft fitted with a continuous liner the whole length of the stern tube *No liners* Is the after end of the liner made water tight

bell boss *✓* If the liner is in more than one length are the joints burned *✓* If the liner does not fit tightly at the part

bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *✓* If two

fitted, is the shaft lapped or protected between the liners *✓* Length of stern bush *3 - 2"*

shaft *as per rule 8.209"* Dia. of Crank shaft journals *as per rule 8.619"* Dia. of Crank pin *8 7/8* Size of Crank webs *13.6"* Dia. of thrust shaft under

as fitted 7 1/8 Dia. of screw *11 - 0"* Pitch of Screw *13 - 0"* No. of Blades *4* State whether moveable *No* Total surface *40 sq ft*

d pumps *2* Diameter of ditto *3 1/2"* Stroke *15"* Can one be overhauled while the other is at work *✓*

e pumps *2* Diameter of ditto *3 1/2"* Stroke *15"* Can one be overhauled while the other is at work *✓*

key Engines *2* Sizes of Pumps *2* No. and size of Suctions connected to both Bilge and Donkey pumps

Room *2* In Holds, &c. *2*

Injections *2* sizes *2* Connected to condenser, or to circulating pump *2* Is a separate Donkey Suction fitted in Engine room & size *2*

bilge suction pipes fitted with roses *2* Are the roses in Engine room always accessible *2* Are the sluices on Engine room bulkheads always accessible *2*

connections with the sea direct on the skin of the ship *2* Are they Valves or Cocks *2*

ed sufficiently high on the ship's side to be seen without lifting the stokehold plates *2* Are the Discharge Pipes above or below the deep water line *2*

h fitted with a Discharge Valve always accessible on the plating of the vessel *2* Are the Blow Off Cocks fitted with a spigot and brass covering plate *2*

are carried through the bunkers *2* How are they protected *2*

es, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *2*

ge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges *2*

o Shaft Tunnel watertight *2* Is it fitted with a watertight door *2* worked from *2*

S, &c.—(Letter for record *2258*) Manufacturers of Steel *2208*

ing Surface of Boilers *2208* Is Forced Draft fitted *2* No. and Description of Boilers *2*

Pressure *180 lb* Tested by hydraulic pressure to *2* Date of test *2* No. of Certificate *2*

iler be worked separately *2* Area of fire grate in each boiler *2* No. and Description of Safety Valves to *2*

Area of each valve *2* Pressure to which they are adjusted *2* Are they fitted with easing gear *2*

ance between boilers or uptakes and bunkers or woodwork *2* Mean dia. of boilers *2* Length *2* Material of shell plates *2*

Range of tensile strength *2* Are the shell plates welded or flanged *2* Descrip. of riveting: cir. seams *2*

Diameter of rivet holes in long. seams *2* Pitch of rivets *2* Lap of plates or width of butt straps *2*

of strength of longitudinal joint *2* Working pressure of shell by rules *2* Size of manhole in shell *2*

ensating ring *2* No. and Description of Furnaces in each boiler *2* Material *2* Outside diameter *2*

ain part *2* Thickness of plates *2* Description of longitudinal joint *2* No. of strengthening rings *2*

ssure of furnace by the rules *2* Combustion chamber plates: Material *2* Thickness: Sides *2* Back *2* Top *2* Bottom *2*

is to ditto: Sides *2* Back *2* Top *2* If stays are fitted with nuts or riveted heads *2* Working pressure by rules *2*

stays *2* Area at smallest part *2* Area supported by each stay *2* Working pressure by rules *2* End plates in steam space: *2*

Thickness *2* Pitch of stays *2* How are stays secured *2* Working pressure by rules *2* Material of stays *2*

allest part *2* Area supported by each stay *2* Working pressure by rules *2* Material of Front plates at bottom *2*

Material of Lower back plate *2* Thickness *2* Greatest pitch of stays *2* Working pressure of plate by rules *2*

tubes *2* Pitch of tubes, *2* Material of tube plates *2* Thickness: Front *2* Back *2* Mean pitch of stays *2*

is wide water spaces *2* Working pressures by rules *2* Girders to Chamber tops: Material *2* Depth and *2*

girder at centre *2* Length as per rule *2* Distance apart *2* Number and pitch of stays in each *2*

ssure by rules *2* Steam dome: description of joint to shell *2* % of strength of joint *2*

Thickness of shell plates *2* Material *2* Description of longitudinal joint *2* Diam. of rivet holes *2*

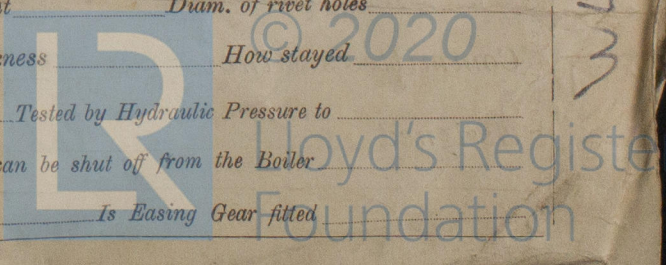
ts *2* Working pressure of shell by rules *2* Crown plates *2* Thickness *2* How stayed *2*

EATER. Type *2* Date of Approval of Plan *2* Tested by Hydraulic Pressure to *2*

te of Test *2* Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler *2*

meter of Safety Valve *2* Pressure to which each is adjusted *2* Is Easing Gear fitted *2*

W457-0190



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

E. P. Plentz

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } *Sept. 2. 11. Oct. 8*
{ During erection on board vessel - - - }
Total No. of visits *3*

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Cylinders *11.9.19* Slides *11.9.19* Covers *11.9.19* Pistons *11.9.19* Rods *11.9.19* Connecting rods *11.9.19* Crank shaft *11.9.19* Thrust shaft *11.9.19* Tunnel shafts *✓* Screw shaft *11.9.19* Propeller *11.9.19* Stern tube *11.9.19* 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 *Steel* Identification Mark on Do. *3616 22.3.18* Material of Thrust shaft *Steel* Identification Mark on Do. *3616 22.3.18* Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *Steel* Identification Marks on Do. *✓* Material of Steam Pipes Test pressure

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. *These engines constructed*

Survey & material tested by British Corporation; it is now proposed that they have been submitted for classification in the Lloyd's Register (see Secretary letter 4.9.19) they have been opened up at the builders works & examined & found sound & good, the workmanship is good. The above forwarded to Mr Kincaid, Greenock.

The amount of Entry Fee ... £ *2 : 0 : 0* When applied for, *6.11.19*
Special (*2.2.2*) ... £ *9 : 10 : 6*
Donkey Boiler Fee ... £ : : When received, *23.3.19.20*
Travelling Expenses (if any) £ *1 : 10 : 6*

Committee's Minute

GLASGOW 27 DEC 1921

Assigned *See Gen. Rpt No 17909*

Thomas Blackie, St. P. Cornhill
Engineer Surveyor to Lloyd's Register of Shipping



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