

THU. 29 DEC. 1921

REPORT ON MACHINERY.

No. 82315

6 - NOV 1919

4.

Writing Report *S. 11. 1919* When handed in at Local Office *6. 10 19* Port of *London*
 Survey held at *Newbury* Date, First Survey *2nd. Sept.* Last Survey *8th Oct. 1919*
 on the *Triple Exp Engine No 2395 of Langfjord* (Number of Visits *3*)
 Tons { Gross *964*
 Net *451*
 Built at *Adman* By whom built *Adman & Co Ltd* When built *1921*
 Made at *Newbury* By whom made *Plenty & Son Ltd* when made *1919*
 Made at *French* By whom made *John S Kincaid & Co* when made *1921*
 Horse Power *142* Owners *Norwegian American Stevedores* Port belonging to *Christiana*
 Horse Power as per Section 28 *137* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *Yes*

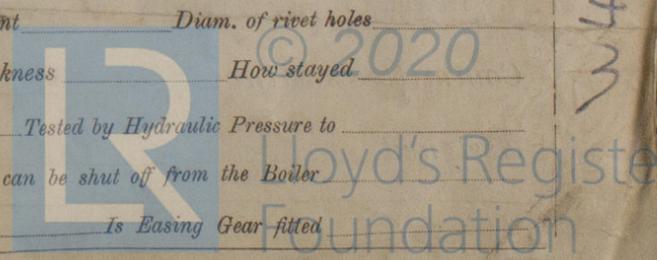
ENGINES, &c.—Description of Engines *Triple, Surface Condensing* No. of Cylinders *3* No. of Cranks *3*
 Cylinders *16 1/2 - 24 - 44* Length of Stroke *30* Revs. per minute *8.619* Dia. of Screw shaft as per rule *9.55* Material of *Steel*
 as fitted *9 3/8* screw shaft) shaft fitted with a continuous liner the whole length of the stern tube *No liners* Is the after end of the liner made water tight
 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"*
 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 x 6* Dia. of thrust shaft under
 as fitted *8 7/8* Dia. of screw *11 - 0"* Pitch of Screw *13 - 0"* No. of Blades *4* State whether moveable *No* Total surface *40 sq ft*
 pumps *2* Diameter of ditto *3 1/2"* Stroke *15"* Can one be overhauled while the other is at work
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Key Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 Room In Holds, &c.
 Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size
 Bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
 Connections with the sea direct on the skin of the ship Are they Valves or Cocks
 Keel 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
 Keel 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
 Are they carried through the bunkers How are they protected
 Valves, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
 Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
 Shaft Tunnel watertight Is it fitted with a watertight door worked from

MANUFACTURERS OF STEEL
 Working Surface of Boilers *2258* Is Forced Draft fitted No. and Description of Boilers
 Pressure *180 lbs* Tested by hydraulic pressure to Date of test No. of Certificate
 Can be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
 Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
 Clearance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
 Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
 Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
 Working pressure of shell by rules Size of manhole in shell
 No. and Description of Furnaces in each boiler Material Outside diameter
 Thickness of plates crown bottom Description of longitudinal joint No. of strengthening rings
 Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 Working pressure by rules If stays are fitted with nuts or riveted heads Working pressure by rules
 Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
 Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
 Area supported by each stay Working pressure by rules Material of Front plates at bottom
 Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
 Pitch of tubes, Material of tube plates Thickness: Front Back Mean pitch of stays
 Working pressures by rules Girders to Chamber tops: Material Depth and
 Length as per rule Distance apart Number and pitch of stays in each
 Steam dome: description of joint to shell % of strength of joint
 Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Working pressure of shell by rules Crown plates Thickness How stayed

SAFETY VALVE. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Pressure to which each is adjusted Is Easing Gear fitted

W 451-0190



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. Plenty

Manufacturer.

Dates of Survey while building { During progress of work in shops -- } *1919*
{ During erection on board vessel --- } *Sept. 2. 11. Oct. 8*
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* Material of Thrust shaft *Steel* Identification Mark on Do. *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*

Summary & material tested by British Corporation; it is now proposed & they have been submitted for classification in the British 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 Messrs Kincaids, Greenock.

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

Thomas Blackie, Lt. Col.
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute *GLASGOW 27 DEC 1921*

Assigned *See Gen. Rpt No 17909*



Planks seen near-beam (see Greenock)

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