

Rpt. 4.

REPORT ON MACHINERY.

No. 10641

Received at London Office

TUE JUL 27 1920

Date of writing Report 20th July 1920 When handed in at Local Office 21st July 1920 Port of Southampton
 No. in Survey held at Southampton Date, First Survey 1st June 1920 Last Survey 19th July 1920
 Reg. Book. on the S.S. "AVANVILLE" (Number of Visits 2)

Master _____ Built at Southampton By whom built Messrs. Dibles Ltd When built 1920
 Engines made at _____ By whom made _____ when made _____
 Boilers made at _____ By whom made _____ when made _____
 Registered Horse Power _____ Owners _____ Port belonging to _____
 Nom. Horse Power as per Section 28 _____ Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

ENGINES, &c.—Description of Engines ☒ No. of Cylinders ☒ No. of Cranks ☒
 Dia. of Cylinders ☒ Length of Stroke ☒ Revs. per minute ☒ Dia. of Screw shaft ☒ Material of screw shaft ☒
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube ☒ Is the after end of the liner made water tight in the propeller boss ☒
 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 Two Sizes of Pumps 6"x7"x8" & 4 1/2"x3"x6" No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room ☒ In Holds, &c. ☒

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 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 ☒ 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 ☒
 Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door ☒ worked from ☒

BOILERS, &c.—(Letter for record _____) Manufacturers of Steel _____

Total Heating Surface of Boilers _____ Is Forced Draft fitted _____ No. and Description of Boilers _____
 Working Pressure _____ Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____
 Can each boiler be worked separately _____ Area of fire grate in each boiler _____ No. and Description of Safety Valves to each boiler _____ Are they fitted with easing gear _____
 Area of each valve _____ Pressure to which they are adjusted _____
 Smallest distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers _____ Length _____ Material of shell plates _____
 Thickness _____ Range of tensile strength _____ Are the shell plates welded or flanged _____ Descrip. of riveting: cir. seams _____
 long. seams _____ 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 _____ Size of manhole in shell _____
 Size of compensating ring _____ No. and Description of Furnaces in each boiler _____ Material _____ Outside diameter _____
 Length of plain part ☒ Thickness of plates ☒ Description of longitudinal joint _____ No. of strengthening rings _____
 Working pressure of furnace by the rules _____ Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____
 Pitch of stays to ditto: Sides _____ Back _____ Top _____ If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____
 Material of stays _____ Area at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ End plates in steam space: _____
 Material _____ Thickness _____ Pitch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of stays _____
 Area at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ Material of Front plates at bottom _____
 Thickness _____ Material of Lower back plate _____ Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____
 Diameter of tubes _____ Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____
 Pitch across wide water spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ Depth and _____
 thickness of girder at centre _____ Length as per rule _____ Distance apart _____ Number and pitch of stays in each _____
 Working pressure by rules _____ Steam dome: description of joint to shell _____ % 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 _____
 SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
 Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
 Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

4700-2568-002576-0044

IS A DONKEY BOILER FITTED? ☒

If so, is a report now forwarded? ☒

SPARE GEAR. State the articles supplied:—

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

1st June & 19th July 1920
2

Is the approved plan of main boiler forwarded herewith ☒

" " " 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 1-6-20 Stern tube 1-6-20 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 ☒ 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.)

The Sea-connections, stern-tube and donkey pumps have been efficiently fitted on board. The material and workmanship being sound and good. The vessel is being towed to Sunderland, where the machinery is to be installed.

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

A. H. Boyle
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. AUG. 31 1920

Assigned



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Foundation