

REPORT ON MACHINERY.

No. 15494.

Received at London JUL 19 1920

Writing Report 17-7-20 When handed in at Local Office 17-7-20 Port of Leix
 Survey held at Burntisland Date, First Survey 2-4-20 Last Survey 14-7-1920
 on the S.S. "Antinea" (Number of Visits 2) Tons { Gross 2520 Net 1510 }
 Built at Burntisland By whom built Burntisland S.S. Co. (100%) When built 1920
 es made at Sunderland By whom made John Barton Eng. Co. (2448) when made 1920
 s made at Do By whom made Do when made 1920
 lered Horse Power 237 Owners Loi Auxiliaire Navigation Port belonging to Hankes
 Horse Power as per Section 28 237 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 INES, &c.—Description of Engines Triple expansion (one set) No. of Cylinders 3 No. of Cranks 3
 of Cylinders 21.34.57 Length of Stroke 36 Revs. per minute 102 Dia. of Screw shaft as per rule Material of screw shaft as fitted
 screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight
 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
 in the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two
 are fitted, is the shaft lapped or protected between the liners Length of stern bush
 of Tunnel shaft as per rule Dia. of Crank shaft journals as per rule Dia. of Crank pin as fitted Size of Crank webs Dia. of thrust shaft under
 Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface
 of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 of Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room In Holds, &c.
 Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size
 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
 all connections with the sea direct on the skin of the ship Are they Valves or Cocks
 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
 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 Yes
 pipes are carried through the bunkers How are they protected
 all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
 the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges
 e Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from U.E. Platform
 LERS, &c.—(Letter for record) Manufacturers of Steel
 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
 each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
 boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
 test distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
 ness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
 seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
 entages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
 of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
 th of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
 bottom Thickness of plates bottom Description of longitudinal joint No. of strengthening rings
 ing pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
 of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
 rial of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
 rial Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
 at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
 ness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
 eter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
 across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
 ness of girder at centre Length as per rule Distance apart Number and pitch of stays in each
 pping. ing pressure by rules Steam dome: description of joint to shell % of strength of joint
 eter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 of rivets Working pressure of shell by rules Crown plates Thickness How stayed
 ERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 eter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

WWS8-0184

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 -- } 2-4-6. / 4.7.20
Total No. of visits 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 2-4-20 Engines holding down bolts
Completion of pumping arrangements Boilers fixed Engines tried under steam
Completion of fitting sea connections 3-4-20 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 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 machinery of this vessel is eligible in my opinion to have the report L.M.C 7-20 as recommended in Sunderland Rpt No 27847 1st Entry Report enclosed

The amount of Entry Fee ... £ : : When applied for,
Special ... £ : : 17. 7. 19. 20.
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ 9-6 14/8/20

J.R. Williamson
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI JUL 23 1920

Assigned

See attached R.C. report



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Foundation