

4.

REPORT ON MACHINERY.

No. 2511.

Received at London Office

MON. 27 MAR. 1922

Writing Report 19.3. 1922 When handed in at Local Office 19.3. 1922 Port of *Fiume*
 Survey held at *Fiume* Date, First Survey 22/9/1921 Last Survey 17.12 1921
 on the *S/S BOSNIA* (Number of Visits 7)
 Tons { Gross 54030
 Net 26263
 When built 1899
 Built at *Frieste* By whom built *Lloyd Austro-ungarico*
 Made at *Frieste* By whom made *Lloyd Austro-ungarico* when made 1899
 Made at *Frieste* By whom made *Lloyd Austro-ungarico* when made 1899
 Rated Horse Power 600 Owners *Sea Nav. Dalmatian* Port belonging to *Frieste*
 Horse Power as per Section 28 *65 94* Is Refrigerating Machinery fitted for cargo purposes — Is Electric Light fitted *yes*.

ENGINES, &c.—Description of Engines *3 Cylinder Engine* No. of Cylinders *3* No. of Cranks *3*
 of Cylinders *13 7/8" x 22 1/4" x 36"* Length of Stroke *24"* Revs. per minute *140* Dia. of Screw shaft *7 3/8"* as per rule *7 27"* Material of *Steel*
 as fitted *7 3/8"* screw shaft
 screw shaft fitted with a continuous liner the whole length of the stern tube *continuous* Is the after end of the liner made water tight
 propeller boss *yes*. 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 *yes*. If two
 are fitted, is the shaft lapped or protected between the liners — Length of stern bush *19 3/4"*
 Tunnel shaft as per rule *6.62"* Dia. of Crank shaft journals as per rule *6.95"* Dia. of Crank pin *7 1/16"* Size of Crank webs *20 2 1/2" x 8 5"* Dia. of thrust shaft under
 as fitted *7 3/32"* Dia. of screw *2.66"* Pitch of Screw *10 3/8"* No. of Blades *4* State whether moveable *No* Total surface *23 5"*
 Feed pumps *1* Diameter of ditto *2 1/4"* Stroke *13"* Can one be overhauled while the other is at work —
 Bilge pumps *1* Diameter of ditto *3"* Stroke *13"* Can one be overhauled while the other is at work —
 of Donkey Engines *Two* Sizes of Pumps *Nº 1 5" x 7" x 10" x 1 1/2"* No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room *Three of tubes 2 1/2" - 2 1/2" - 2 1/2"* In Holds, &c. *Nº 1 one of tube 2 1/2"; Tailer space one of 2 1/2"; Hold Nº 2 two of tubes 2 1/2" Fore peak 1 hand pump of 2" After peak Tank of tubes 3"*
 Bilge Injections *✓* sizes *✓* Connected to condenser, or to circulating pump *Circ* Is a separate Donkey Suction fitted in Engine room & size *yes*.
 All the bilge suction pipes fitted with roses *yes*. Are the roses in Engine room always accessible *yes*. Are the sluices on Engine room bulkheads always accessible —
 All connections with the sea direct on the skin of the ship *yes* Are they Valves or Cocks *Valve*
 Key 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*
 Key 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*
 Pipes are carried through the bunkers *No pipes in Bunkers*. How are they protected —
 All Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times *yes*
 Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges *No*
 Screw Shaft Tunnel watertight *yes*. Is it fitted with a watertight door *yes*. worked from *Engine Room*.

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

Heating Surface of Boilers *1479 5/8"* Is Forced Draft fitted *yes*. No. and Description of Boilers *Two Cylindrical*
 Working Pressure *170 lbs.* Tested by hydraulic pressure to *15 1/2/1921* Date of test *17* No. of Certificate
 Each boiler be worked separately *yes* Area of fire grate in each boiler *40.1 5/8"* No. and Description of Safety Valves to
 Boiler *two ADAM.* Area of each valve *6 1/4"* Pressure to which they are adjusted *170 lbs.* Are they fitted with easing gear *yes*.
 Distance between boilers or uptakes and bunkers or woodwork *12"* Mean dia. of boilers *9 1/4"* Length *10 7 1/4"* Material of shell plates *Steel*
 Range of tensile strength *✓* Are the shell plates welded or flanged *flang* Descrip. of riveting: cir. seams *claw*.
 Diameter of rivet holes in long. seams *1"* Pitch of rivets *6 1/4" x 1 1/4"* Lap of plates or width of butt straps *butt straps*
 Stages of strength of longitudinal joint rivets *106%* Working pressure of shell by rules *3 1/4" x 1 3/4" 3 1/2" lbs* Size of manhole in shell *16" x 12"*
 plate *84%*
 compensating ring *30" x 26"* No. and Description of Furnaces in each boiler *Two Morrison* Material *Steel* Outside diameter *25 11 1/4"*
 of plain part top *9* Thickness of plates crown *7 1/16"* Description of longitudinal joint *Welded*. No. of strengthening rings
 bottom *9* bottom *7 1/16"*
 Working pressure of furnace by the rules Combustion chamber plates: Material *Steel* Thickness: Sides *9 1/16"* Back *9 1/16"* Top *9 1/16"* Bottom *3/4"*
 of stays to ditto: Sides *8" x 7 1/2"* Back *7 7/8" x 7 1/2"* Top *7 1/2" x 7 1/2"* If stays are fitted with nuts or riveted heads *with nuts* Working pressure by rules —
 Area of stays *Steel* Area at smallest part *2.4 5/8"* Area supported by each stay *52.5 5/8"* Working pressure by rules — End plates in steam space:
 Thickness *1 5/16"* Pitch of stays *15 1/2" x 15 1/2"* How are stays secured *Nuts* Working pressure by rules — Material of stays *Steel*
 at smallest part *4.72 5/8"* Area supported by each stay *2.40 5/8"* Working pressure by rules — Material of Front plates at bottom *Steel*
 Material of Lower back plate *Steel* Thickness *3/4"* Greatest pitch of stays *7 1/2"* Working pressure of plate by rules —
 Pitch of tubes *3 3/8" x 3 3/4"* Material of tube plates *Steel* Thickness: Front *3/4"* Back *23/32"* Mean pitch of stays *7 3/4"*
 across wide water spaces *14"* Working pressures by rules Girders to Chamber tops: Material *Steel* Depth and
 of girder at centre *9" x 18"* Length as per rule *25 1/2"* Distance apart *7 3/4"* Number and pitch of stays in each *Nº 2 - 8"*
 Working pressure by rules — Steam dome: description of joint to shell — % of strength of joint —
 Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet holes —
 rivets — Working pressure of shell by rules — Crown plates — Thickness — How stayed —
 REHEATER. Type — Date of Approval of Plan — Tested by Hydraulic Pressure to —
 Test — Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler —
 of Safety Valve — Pressure to which each is adjusted — Is Easing Gear fitted —

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

No

SPARE GEAR. State the articles supplied:—

all as Rules. requirements.

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

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

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 quality of workmanship is good. Boiler opened and examined and made all necessary repairs (See Boiler Eng. Reports.)

Certificate (if required) 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

Special

Donkey Boiler Fee

Travelling Expenses (if any)

When applied for,

19. 11. 22

When received,

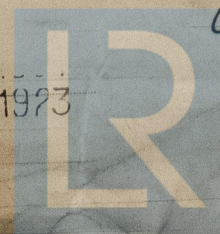
19/5/22

Committee's Minute

Assigned

No action

FRI 26 JAN. 1923



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