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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

Built at Frieste By whom built Lloyd Austriaco When built 1899

Made at Frieste By whom made Lloyd Austriaco when made 1899

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Indicated 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 as per rule 7.27" Material of Steel
as fitted 7.38" 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 1/2" x 8 5/8" Dia. of thrust shaft under

as fitted 7.32" as fitted 7 1/16" as fitted 7 1/16" as fitted 5"

7 1/16" Dia. of screw 2.66" Pitch of Screw 10 3/8" No. of Blades 4 State whether maceable No Total surface 23 0"

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 N 10R-5" x 7" x 10" 1 1/2"
DUTY-B 6" x 5 3/4" 6" x 4 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"; No 2 one of tube 2 1/2";
No 3 2 1/2"; Hold No 2 two of tubes 2 1/2" Fore peak 1 hand pump of 2" After peak Tanks of tubes 3"

Bilge Injections ✓ sizes ✓ Connected to condenser, or to circulating pump Direct Is a separate Donkey Suction fitted in Engine room & size yes.

Are 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 —

Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Valve

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

Are pipes carried through the bunkers No pipes in 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 yes

Are Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges No

Is 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 0" Is Forced Draft fitted yes. No. and Description of Boilers Two Cylindrical

Working Pressure 170 lbs. Tested by hydraulic pressure to 15/11/1921 Date of test 17 No. of Certificate —

Can each boiler be worked separately yes. Area of fire grate in each boiler 40.1 0" No. and Description of Safety Valves to —

Boiler two ADAM. Area of each valve 6.4 9 Pressure to which they are adjusted 170 lbs. Are they fitted with easing gear yes.

Least distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 9 7/10 3/4" Length 10 7 1/16" Material of shell plates steel

Range of tensile strength 7/8" Are the shell plates welded or flanged flang. Descrip. of riveting: cir. seams claw.

Seams trac. Diameter of rivet holes in long. seams 1" Pitch of rivets 6 1/4" x 1 3/4" 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" 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 2'-11 1/4"

of plain part top 9 Thickness of plates crown 7/16" Description of longitudinal joint Welded. No. of strengthening rings —
bottom 9 bottom 7/16"

Working pressure of furnace by the rules — Combustion chamber plates: Material steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 3/4"

of stays to ditto: Sides 8" x 7 1/2" Back 7" 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 —

Material of stays Steel Area at smallest part 2.4 0" Area supported by each stay 52.5 0" Working pressure by rules — End plates in steam space:

Material Steel Thickness 1 5/16" Pitch of stays 15 1/2" x 15 1/2" How are stays secured Rec. & Nuts. Working pressure by rules — Material of stays steel

at smallest part 4.72 0" Area supported by each stay 2.40 0" 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 —

of tubes 2 1/2" Pitch of tubes 3 7/8" 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 1/2" Working pressures by rules — Girders to Chamber tops: Material steel Depth and

of girder at centre 9" - 9 1/8" Length as per rule 2 1/2 1/2" - 25 1/4" 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 —

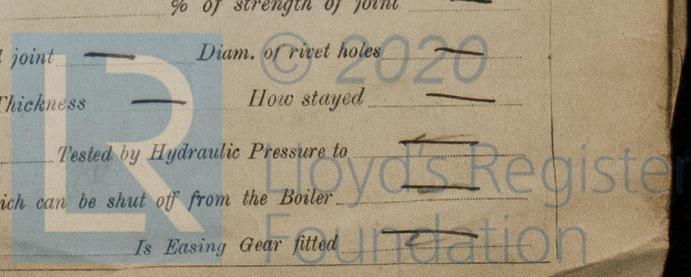
Rivets — Working pressure of shell by rules — Crown plates — Thickness — How stayed —

HEATER. 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 —

4770-850600-570600



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 Committee's Minutes.

The amount of Entry Fee

Special ... £

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

When applied for,

19 01 22

When received,

19/5/22

[Signature]
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned

No action

FRI 26 JAN 1923



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