

## REPORT ON MACHINERY

No. 5710.

Received at London Office

Date of writing Report 20. 6. 21 When handed in at Local Office 30. 7. 21 Port of Trieste  
 No. in Survey held at Trieste Date, First Survey 30/5/16 Last Survey 15/6/1921  
 Reg. Book. S.S. Isonzo (Number of Visits 53) Tons Gross 5441 Net 3428  
 on the

Master Built at Trieste By whom built Cantieri S. Rocco S.R. When built

Engines made at Trieste By whom made Stabilimento Tecnico Triestino when made 1921.

Boilers made at Hamburg Trieste By whom made Blohm & Voß Stabilimento Le Sestini when made 1921.

Registered Horse Power Owners Navigazione Lina Triestina Port belonging to Trieste

Nom. Horse Power as per Section 28 465 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yps.

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 27.42 x 68 Length of Stroke 48 Revs. per minute 46 Dia. of Screw shaft as per rule 14.48 Material of screw shaft 5

Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yps. Is the after end of the liner made water tight

in the propeller boss Yps. 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 61

Dia. of Tunnel shaft as per rule 13.1 Dia. of Crank shaft journals as per rule 13.82 Dia. of Crank pin 14.17 Size of Crank webs 26 x 9 Dia. of thrust shaft under

collars 14.17 Dia. of screw 17.9 Pitch of Screw 16.3 No. of Blades 4 State whether moveable Total surface 99 sq

No. of Feed pumps 2 Diameter of ditto 3 3/4 Stroke 24 Can one be overhauled while the other is at work Yps.

No. of Bilge pumps 2 Diameter of ditto 4 1/2 Stroke 24 Can one be overhauled while the other is at work Yps.

No. of Donkey Engines 2 Sizes of Pumps 6.5 x 6.3 x 9 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 6 D 3 1/2 In Holds, &c. 13 D 3 1/2

No. of Bilge Injections 1 sizes 4.89 Connected to condenser or to circulating pump Yps. Is a separate Donkey Suction fitted in Engine room & size 10 D 3 1/2

Are all the bilge suction pipes fitted with roses Yps. Are the roses in Engine room always accessible Yps. Are the sluices on Engine room bulkheads always accessible None.

Are all connections with the sea direct on the skin of the ship Yps. Are they Valves or Cocks Valves & cocks.

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yps. 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 Yps. Are the Blow Off Cocks fitted with a spigot and brass covering plate Yps.

What pipes are carried through the bunkers Forward hold Suctions How are they protected Close casing

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yps.

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yps.

Is the Screw Shaft Tunnel watertight See hull Report Is it fitted with a watertight door Yps. worked from Top platform

BOILERS, &c.—(Letter for record S Manufacturers of Steel Rheinische Stahlwerke and Thyssen & Co. S.S.B.

Total Heating Surface of Boilers 7223 sq Is Forced Draft fitted Yps. No. and Description of Boilers 3 Single ended.

Working Pressure 180 lbs Tested by hydraulic pressure to 360 Date of test 2/12/19 No. of Certificate 201.202.203.

Can each boiler be worked separately Yps. Area of fire grate in each boiler 52.4 sq No. and Description of Safety Valves to

each boiler 2 direct spring Area of each valve 9.62 sq Pressure to which they are adjusted 185 Are they fitted with easing gear Yps.

Smallest distance between boilers or uptakes and bunkers or woodwork 4'-0" Mean dia. of boilers 15'-0" Length 11'-9" Material of shell plates 5

Thickness 17/32 Range of tensile strength 28-30 Are the shell plates welded or flanged No. Descrip. of riveting: cir. seams DR. lap.

long. seams DBS. TR. Diameter of rivet holes in long. seams 1 1/4 Pitch of rivets 8 1/4 Lap of plates or width of butt straps 18 1/2

Per centages of strength of longitudinal joint rivets 85.4 Working pressure of shell by rules 186. Size of manhole in shell Plate 16 x 12

Size of compensating ring No. and Description of Furnaces in each boiler 3 Motion Material S Outside diameter 17 1/4

Length of plain part top Thickness of plates crown 9 1/6 Description of longitudinal joint Weld. No. of strengthening rings

Working pressure of furnace by the rules 188. Combustion chamber plates: Material S Thickness: Sides 1 1/2 Back 1 1/2 Top 1 1/2 Bottom 1 1/2

Pitch of stays to ditto: Sides 8 1/4 x 8 Back 8 1/2 x 7 1/2 Top 8 1/4 x 8 If stays are fitted with nuts or riveted heads Auto Working pressure by rules 184.

Material of stays S Area at smallest part 1.45 Area supported by each stay 62.75 Working pressure by rules 182. End plates in steam space:

Material S Thickness 1 Pitch of stay 1 1/4 x 5 1/2 How are stays secured D. Auto Working pressure by rules 183. Material of stays S

Area at smallest part 4.3 Area supported by each stay 244 Working pressure by rules 183. Material of Front plates at bottom S

Thickness 1/8 Material of Lower back plate S Thickness 1 1/6 Greatest pitch of stays 23 x 10 Working pressure of plate by rules 339

Diameter of tubes 3 Pitch of tubes 4 1/4 x 4 1/4 Material of tube plates S Thickness: Front 1 x 1/8 Back 3/4 Mean pitch of stays 8 1/2

Pitch across wide water spaces 14 Working pressures by rules 182 Girders to Chamber tops: Material S Depth and

thickness of girder at centre 9 1/4 x 1 1/2 Length as per rule 36.2 Distance apart 8. Number and pitch of stays in each 3 D 8 1/4

Working pressure by rules 181. Steam dome: description of joint to shell None. % 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 Schmidt Date of Approval of Plan Tested by Hydraulic Pressure to 50 Atms.

Date of Test 20/7/17 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yps.

Diameter of Safety Valve 2 Pressure to which each is adjusted 181. Is Easing Gear fitted No.

002825-002829-0027

IS A DONKEY BOILER FITTED?

No.

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— Two each of connecting rod top end, and bottom end bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts, feed & bilge pump valves, condenser tubes, gaskets, Propeller & screw shaft, Cranked bolts & nuts, and a quantity of iron of various sizes.

The foregoing is a correct description,

STABILIMENTO TECNICO TRIESTINO

M. And. Kring

Manufacturer.

Dates of Survey while building  
During progress of work in shops: 1916 May 30, July 13, 1918 Oct 4, 9, 29, 1919 Jan 24, Mar 31, Apr 8, 11, May 8, June 14, July 22, Sep 3, 12, 30, Oct 14, 19, 25, Nov 8, 13, 25, 26, Dec 2, 3, 5, 16, 17, 19, 20, Jan 3, 5, Feb 2, 13, 16, Mar 9, Apr 14, May 27, July 24, 30, 31, Oct 12, Nov 23, Dec 11, 1921 Feb 21, Mar 10, 25, 31, Apr 13, 26, 30  
During erection on board vessel: May 3, 5, 21, 23, June 15  
Total No. of visits: fifty three

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 24/1/19 Slides 14/10/19 Covers 20/10/19 Pistons 8/11/19 Rods 8/11/19  
Connecting rods 8/11/19 Crank shaft 1/17 Thrust shaft 3/17 Tunnel shafts 3/17 Screw shaft 6/17 Propeller 3/5/21  
Stern tube 3/12/19 Steam pipes tested 25/4/21 Engine and boiler seatings 3/12/19 Engines holding down bolts 30/4/21  
Completion of pumping arrangements 33/5/21 Boilers fixed 26/4/21 Engines tried under steam 21/5/21  
Completion of fitting sea connections 17/12/19 Stern tube 17/12/19 Screw shaft and propeller 3/5/21  
Main boiler safety valves adjusted 21/5/21 Thickness of adjusting washers PB: 4.5 + 4.5 C.B: 3.5 + 4.5 S.B: 4.5 + 4.5  
Material of Crank shaft S.S. Identification Mark on Do. 4275-MK Material of Thrust shaft S.S. Identification Mark on Do. 4298-MK  
Material of Tunnel shafts S.S. Identification Marks on Do. 4293/300 Material of Screw shafts S.S. Identification Marks on Do. 6480-EN  
Material of Steam Pipes Solid drawn steel Test pressure 50 atmos.

Is an installation fitted for burning oil fuel

No.

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

No.

If so, state name of vessel Cherka, Maria & Alba

General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of this vessel has been built under special Survey, and in accordance with the Rules. The materials and workmanship are good, and on completion the engines, boilers, and auxiliary machinery were tried under full working conditions and found satisfactory.

The machinery of this vessel is eligible in our opinion to have notation of +L.M.C. 6-21.

Wireless telegraphy and electric light fitted.

It is submitted that this vessel is eligible for THE RECORD. +L.M.C. 6-21 F.D. C.L.

The amount of Entry Fee ... £ 390 :  
Special Installation ... £ 69.94 :  
Donkey Boiler Fee ... £ 10.92 :  
Travelling Expenses (if any) £ :  
When applied for, 17.12.17  
When received, 18.6.1921

Committee's Minute

FRI. 12 AUG. 1921

Assigned

+L.M.C. 6, 21

F.D. C.L.

Godfray M. G. G. G.  
Engineer Surveyor to Lloyd's Register of Shipping.



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