

Rpt. 4.

REPORT ON MACHINERY.

No. 5364

Date of writing Report 28/3 1922 When handed in at Local Office 31/3 1922 Port of Trieste
 No. in Survey held at Trieste Date, First Survey 4.10.1920 Last Survey 24.2.1921
 Reg. Book. on the S.S. "Quinto" (Number of Visits 6)
 Master Enzo S. Quinto Built at Trieste By whom built Stahlwerke Seewerke Trieste Tons { Gross 240.
 Engines made at Hawthorn By whom made Reicherting S.B. & Eng. Co. Net 93.
 Boilers made at Hawthorn By whom made Reicherting S.B. & Eng. Co. When built 1919.
 Registered Horse Power 45 Owners Stahlwerke Seewerke Trieste when made 1919.
 Nom. Horse Power as per Section 28 45 Is Refrigerating Machinery fitted for cargo purposes No Port belonging to Trieste
 Is Electric Light fitted Yes.

ENGINES, &c.—Description of Engines Single Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 13.20 1/2 x 32 1/4 Length of Stroke 23 1/8 Revs. per minute 110 Dia. of Screw shaft 4 1/4 as per rule 4 1/4 Material of Steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Without liner 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 23 1/2 x 4 1/8
 Dia. of Tunnel shaft 6 3/4 as per rule 6 3/4 Dia. of Crank shaft journals 6 3/4 as per rule 6 3/4 Dia. of Crank pin 4 1/16 Size of Crank webs 23 1/2 x 4 1/8 Dia. of thrust shaft under
 collars 6 13/16 Dia. of screw 9-4 Pitch of Screw 11-2 No. of Blades 4 State whether moveable No Total surface 33.89
 No. of Feed pumps 1 Diameter of ditto 2 3/4 Stroke 11 Can one be overhauled while the other is at work ✓
 No. of Bilge pumps 1 Diameter of ditto 2 3/4 Stroke 11 Can one be overhauled while the other is at work ✓
 No. of Donkey Engines One Sizes of Pump 6 x 4 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 2 2 2 1/2 x 1 2 2 1/2 in. tank well In Holds, &c. 2 2 2" forward
 No. of Bilge Injections 1 sizes 4 1/16 Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 1 2 2"
 Are 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 ✓
 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 Yes
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes
 Is the Screw Shaft Tunnel watertight See hull Report Is it fitted with a watertight door Yes worked from Engine platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel
 Total Heating Surface of Boilers 1442 sq Is Forced Draft fitted No No. and Description of Boilers One Single ended
 Working Pressure 185 lbs. Tested by hydraulic pressure to ✓ Date of test ✓ No. of Certificate ✓
 Can each boiler be worked separately ✓ Area of fire grate in each boiler 38.74 No. and Description of Safety Valves to
 each boiler 2 direct spring Area of each valve 1.07 Pressure to which they are adjusted 185 lbs. Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 4 1/2 Int. Mean dia. of boilers 11-6 Length 10-2 Material of shell plates S
 Thickness .925 Range of tensile strength 28.5 Are the shell plates welded or flanged ✓ Descrip. of riveting: cir. seams 2 R lap
 long. seams DBS Diameter of rivet holes in long. seams 1-26 Pitch of rivets 20 Lap of plates or width of butt straps 26
 Per centages of strength of longitudinal joint 112 Working pressure of shell by rules 185 Size of manhole in shell 15-7 x 11-8
 Size of compensating ring 25.6 x .925 No. and Description of Furnaces in each boiler 2 Morrison Material S Outside diameter 43.3
 Length of plain part 6 top 13 3/4 Thickness of plates .536 bottom .536 Description of longitudinal joint Well No. of strengthening rings ✓
 Working pressure of furnace by the rules 185 Combustion chamber plates: Material S Thickness: Sides .78 Back .59 Top .63 Bottom .78
 Pitch of stays to ditto: Sides 7.84 Back 7.08 Top 7.28 Bottom 7.84 If stays are fitted with nuts or riveted heads Auto Working pressure by rules 185
 Material of stays S Area at smallest part 1.26 Area supported by each stay 6.29 Working pressure by rules 185 End plates in steam space:
 Material S Thickness .98 Pitch of stay 14.46 x 5.74 How are stays secured By nuts Working pressure by rules 185 Material of stays S
 Area at smallest part 7.41 Area supported by each stay 235.6 Working pressure by rules 340 Material of Front plates at bottom S
 Thickness .98 Material of Lower back plate S Thickness .98 Greatest pitch of stays 13.38 x 7 Working pressure of plate by rules 284
 Diameter of tubes 3.27 Pitch of tubes 4.25 x 14.4 Material of tube plates S Thickness: Front .98 Back .94 Mean pitch of stays 8.5 x 8.8
 Pitch across wide water spaces 14.17 Working pressures by rules 348 Girders to Chamber tops: Material S Depth and
 thickness of girder at centre 5.9 x 1.57 Length as per rule 24.92 Distance apart 7.28 Number and pitch of stays in each 20 7.84
 Working pressure by rules 188 Steam dome: description of joint to shell DR % of strength of joint 86.5
 Diameter 25.59 Thickness of shell plates .59 Material S Description of longitudinal joint DR lap Diam. of rivet holes .86
 Pitch of rivets 2.95 Working pressure of shell by rules 260 Crown plates S Thickness .71 How stayed Radius
 SUPERHEATER. Type Smith Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓
 Date of Test 13/8 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes
 Diameter of Safety Valve 1 3/8 Pressure to which each is adjusted 187 Is Easing Gear fitted ✓

W1096-0064

IS A DONKEY BOILER FITTED? *No.*

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied: *Two connecting rods top and bottom and bolts & nuts. Two main bearing bolts. One set of coupling bolts. One set of feed and hlfe pump valves. One bottom end head. One set of piston rings of each size condenser tubes. Safety valves. and screw shaft.*

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 *ten* *1920 Oct 4, 8, 12, 14, 23, Dec 22, 31, 1921 Jan 11, 24, Feb 24,*

Is the approved plan of main boiler forwarded herewith *Yes*

" " " donkey " " "

Dates of Examination of principal parts—Cylinders *14/10/20* Slides *14/10/20* Covers *14/10/20* Pistons *14/10/20* Rods *14/10/20*
Connecting rods *14/10/20* Crank shaft *14/10/20* Thrust shaft *14/10/20* Tunnel shafts *14/10/20* Screw shaft *28/10/20* Propeller *28/10/20*
Stern tube *28/10/20* Steam pipes tested *✓* Engine and boiler seatings *14/10/20* Engines holding down bolts *14/10/20*
Completion of pumping arrangements *24/2/21* Boilers fixed *14/10/20* Engines tried under steam *11/1/21*
Completion of fitting sea connections *28/10/20* Stern tube *✓* Screw shaft and propeller *28/10/20*
Main boiler safety valves adjusted *22/12/20* Thickness of adjusting washers *P 2 1/2" S 1 3/16"*

Material of Crank shaft *S* Identification Mark on Do. Material of Thrust shaft *S* Identification Mark on Do.

Material of Tunnel shafts *S* Identification Marks on Do. Material of Screw shafts *S* Identification Marks on Do.

Material of Steam Pipes *Steel* Test pressure *✓*

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 *✓* If so, state name of vessel *✓*

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

The machinery of this vessel has not been built under special Survey. The engines and boiler have been opened out and examined, and found in order. The sizes and scantlings have been checked. The machinery has been tried under full working working conditions and found satisfactory.

The machinery of this vessel is eligible, in my opinion, to be classed with notation of LMC 2.21 when a propeller of Rule size has been fitted or the existing propeller reduced in diameter.

Electric light fixed.

See London letters E 9/11/20, 15/11/20, and 20/11/20.

The amount of Entry Fee ... *Lib 172.*

Special ... *£ 1612.*

Donkey Boiler Fee ... *£ :*

Travelling Expenses (if any) *£ :*

When applied for,

Mar 31 1922

When received,

14/7/22

John H. O'Connor.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 11 APR. 1922

Assigned

Deferred

FRI. 9 MAR. 1923

L.M.C. 2.21

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Foundation