

REPORT ON MACHINERY.

No. 11241

Received at London Office

WED. JUN 21 1920

Report 15 May 1920 When handed in at Local Office

10 Port of Rotterdam

Survey held at Rotterdam Date, First Survey 4 May 1919 Last Survey 15 May 1920

Ship Steel Screw Steamer "Lombardia" (Number of Visits 34)

Builder Built at Amsterdam By whom built West Highland

at Rotterdam By whom made Mutton By Shipway Co when made 1920

at 20 By whom made S. when made 1920

orse Power Owners Svenke Lloyd Port belonging to Gothenburg

ower as per Section 28 290 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

&c.—Description of Engines Vertical triple expansion No. of Cylinders three No. of Cranks three

ers 23" x 34" x 42" Length of Stroke 39" Revs. per minute 45 Dia. of Screw shaft as per rule Material of screw shaft Steel

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

ler boss L If the liner is in more than one length are the joints burned L If the liner does not fit tightly at the part

earings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive L If two

ed, is the shaft lapped or protected between the liners L Length of stern bush 4' 4"

shaft as per rule Dia. of Crank shaft journals as per rule Dia. of Crank pin 11 3/4" Size of Crank webs 8" x 5 1/2" Dia. of thrust shaft under

1" Dia. of screw 14-2" Pitch of Screw 16-3" No. of Blades 4 State whether moveable No Total surface 45 sq

pumps 2 Diameter of ditto 3 1/2" Stroke 19 1/2" Can one be overhauled while the other is at work Yes

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y Engines 4 Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps

oom Four of 3" 1 x 1 1/4 In Holds, &c. Two in fore hold of 1" Two in after hold of 3"

tunnel of 3"

jections in sizes 6" Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size 1/2" x 3 1/2"

se suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible

tions with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both

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

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

re carried through the bunkers Yes How are they protected wood covering

, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Ah

&c.—(Letter for record S) Manufacturers of Steel Smith Colville

ng Surface of Boilers 3900 Is Forced Draft fitted Yes No. and Description of Boilers Two single ended mainable

ressure 180 lb. Tested by hydraulic pressure to 360 lb. Date of test 5.3.20 No. of Certificate 691

ler be worked separately Yes Area of fire grate in each boiler 52 sq No. and Description of Safety Valves to

Two Gun. loaded Area of each valve 11.045 Pressure to which they are adjusted 180 lb. Are they fitted with easing gear Yes

nce between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 14' 1 1/2" Length 11-6" Material of shell plates Steel

1/2" Range of tensile strength 28/32 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams All with

butt joints Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 4 7/8" Lap of plates or width of butt straps 14 3/4"

of strength of longitudinal joint rivets 2 1/4" Working pressure of shell by rules 192 lb. Size of manhole in shell 12" x 16"

ensating ring 2-6" x 10 1/2" No. and Description of Furnaces in each boiler 3 mainable Material Steel Outside diameter 3' 8 1/2"

ain part top Thickness of plates crown 2 1/2" Description of longitudinal joint Welded No. of strengthening rings L

ssure of furnace by the rules 140 lb. Combustion chamber plates: Material Steel Thickness: Sides 1 1/8" Back 1 1/2" Top 1 1/2" Bottom 2 1/2"

is to ditto: Sides 3 3/4" x 4 1/2" Back 3 1/2" x 4 1/2" Top 3 1/2" x 4 1/2" If stays are fitted with nuts or riveted heads riveted Working pressure by rules 180 lb.

stays Steel Area at smallest part 148 sq Area supported by each stay 65.6 Working pressure by rules 181 lb. End plates in steam space:

Steel Thickness 1" Pitch of stays 18" x 14" How are stays secured riveted Working pressure by rules 182 lb. Material of stays Steel

allest part 4.9 sq Area supported by each stay 252 sq Working pressure by rules 202 lb. Material of Front plates at bottom Steel

1/4" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 13" x 4 7/8" Working pressure of plate by rules 305 lb.

tubes 3 1/4" Pitch of tubes 4 3/8" Material of tube plates Steel Thickness: Front 1" Back 3/4" Mean pitch of stays 10 7/16"

as wide water spaces 15 1/2" Working pressures by rules 181 lb. Girders to Chamber tops: Material Steel Depth and

girder at centre 2 x 4 1/2" x 8 3/4" Length as per rule 2' 0" Distance apart 8 7/8" Number and pitch of stays in each 3 x 4 1/2"

essure by rules 230 lb. Steam dome: description of joint to shell L % of strength of joint L

Thickness of shell plates L Material L Description of longitudinal joint L Diam. of rivet holes L

Working pressure of shell by rules L Crown plates L Thickness L How stayed L

EATER. Type Schmidt Date of Approval of Plan L Tested by Hydraulic Pressure to L

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Safety Valve 2.04 Pressure to which each is adjusted 125 lb. Is Easing Gear fitted Yes

005358-005366-190

IS A DONKEY BOILER FITTED? *Yes*

If so, is a report now forwarded? *See memo*

SPARE GEAR. State the articles supplied:—

Two top end bolts and nuts, 2 bottom end bolts and nuts, 2 beam bolts, 1 set of feed and bilge pump valves, 1 set of piston spacers, a quantity of assorted bolts and nuts. Set of various sizes, 1 propeller screw shaft, 1 set of H.P. piston valve ring.

The foregoing is a correct description,

[Signature]

Manufacturer.

Dates of Survey while building { During progress of work in shops -- *1/5, 2/5, 9/5, 14/5, 15/5, 16/5, 17/5, 18/5, 19/5, 20/5, 21/5, 22/5, 23/5, 24/5, 25/5, 26/5, 27/5, 28/5, 29/5, 30/5, 31/5, 1/6, 2/6, 3/6, 4/6, 5/6, 6/6, 7/6, 8/6, 9/6, 10/6, 11/6, 12/6, 13/6, 14/6, 15/6, 16/6, 17/6, 18/6, 19/6, 20/6, 21/6, 22/6, 23/6, 24/6, 25/6, 26/6, 27/6, 28/6, 29/6, 30/6, 1/7, 2/7, 3/7, 4/7, 5/7, 6/7, 7/7, 8/7, 9/7, 10/7, 11/7, 12/7, 13/7, 14/7, 15/7, 16/7, 17/7, 18/7, 19/7, 20/7, 21/7, 22/7, 23/7, 24/7, 25/7, 26/7, 27/7, 28/7, 29/7, 30/7, 31/7, 1/8, 2/8, 3/8, 4/8, 5/8, 6/8, 7/8, 8/8, 9/8, 10/8, 11/8, 12/8, 13/8, 14/8, 15/8, 16/8, 17/8, 18/8, 19/8, 20/8, 21/8, 22/8, 23/8, 24/8, 25/8, 26/8, 27/8, 28/8, 29/8, 30/8, 31/8, 1/9, 2/9, 3/9, 4/9, 5/9, 6/9, 7/9, 8/9, 9/9, 10/9, 11/9, 12/9, 13/9, 14/9, 15/9, 16/9, 17/9, 18/9, 19/9, 20/9, 21/9, 22/9, 23/9, 24/9, 25/9, 26/9, 27/9, 28/9, 29/9, 30/9, 31/9, 1/10, 2/10, 3/10, 4/10, 5/10, 6/10, 7/10, 8/10, 9/10, 10/10, 11/10, 12/10, 13/10, 14/10, 15/10, 16/10, 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