

REPORT ON MACHINERY.

No. 11241

Received at London Office

WED. JUN 21 1920

Report 15 May 1920 When handed in at Local Office

Port of Rotterdam

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

Name of Vessel Steel Screw Steamer "Lombardia" (Number of Visits 34)

Builder Built at Amsterdam By whom built West Greenland

Where made at Rotterdam By whom made Muttons By Shipway Co when made 1920

By whom made J. when made 1920

Owners Svenska Lloyd Port belonging to Gothenburg

Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

Description of Engines Vertical triple expansion No. of Cylinders three No. of Cranks three

Diameter of cylinders 23" x 34" x 62" Length of Stroke 39" Revs. per minute 45 Dia. of Screw shaft 12 3/4" 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

If the liner is in more than one length are the joints burned 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 If two

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

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

Dia. of screw 14" Pitch of Screw 16" No. of Blades 4 State whether moveable Total surface 45 sq ft

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

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

In Holds, &c. Two in fore hold of 1" Two in after hold of 3"

suctions Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size

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

suctions with the sea direct on the skin of the ship Are they Valves or Cocks

sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line

fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate

are carried through the bunkers How are they protected

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

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

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

&c.—(Letter for record Manufacturers of Steel

ing Surface of Boilers 3900 Is Forced Draft fitted No. and Description of Boilers Two Single ended mainable

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

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

Area of each valve 11.045 Pressure to which they are adjusted 180 lbs. Are they fitted with easing gear

Distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 14' 1 1/2" Length 11-0" Material of shell plates Steel

Range of tensile strength 28/32 tons Are the shell plates welded or flanged 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 Working pressure of shell by rules 192 lbs. Size of manhole in shell 12 x 16"

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

Thickness of plates Description of longitudinal joint No. of strengthening rings

Pressure of furnace by the rules 140 lbs. Combustion chamber plates: Material Steel Thickness: Sides 19/32" Back 19/32" Top 19/32" Bottom 29/32"

is to ditto: Sides 8 3/4" x 4 1/2" Back 8 1/2" x 4 1/2" Top 8 1/2" x 4 1/2" If stays are fitted with nuts or riveted heads Working pressure by rules 180 lbs.

stays Area at smallest part 1.48 sq ft Area supported by each stay 65.6 Working pressure by rules 181 lbs. End plates in steam space:

Thicknes 1" Pitch of stays 10" x 14" How are stays secured Working pressure by rules 182 lbs. Material of stays Steel

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

Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 12" x 4 7/8" Working pressure of plate by rules 305 lbs.

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 1/16"

as wide water spaces 15 1/2" Working pressures by rules 181 lbs. 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' 8" Distance apart 8 7/8" Number and pitch of stays in each 3 x 4 1/2"

Pressure by rules 230 lbs. Steam dome: description of joint to shell % of strength of joint

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

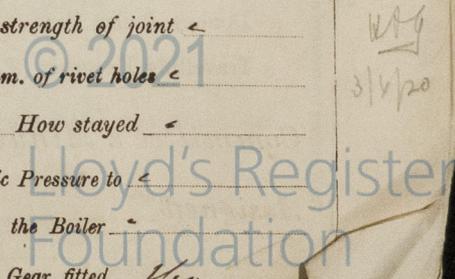
Working pressure of shell by rules Crown plates Thickness How stayed

SAFETY VALVE. Type Schmitt Date of Approval of Plan Tested by Hydraulic Pressure to

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 185 lbs. Is Easing Gear fitted

005358-005366-190



IS A DONKEY BOILER FITTED? *Yes*

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

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 --	1/15	2/15	9/15	14/15	24/15	28/15	1/16	14/16	19/16	22/16	25/16	29/16	1/17	15/17	19/17	21/17	24/17	27/17	30/17	2/18	5/18	12/18	15/18	18/18	21/18	24/18	27/18	30/18	2/19	5/19	12/19	15/19	18/19	21/19	24/19	27/19	30/19	2/20	5/20	12/20	15/20	18/20	21/20	24/20	27/20	30/20	2/21	5/21	12/21	15/21	18/21	21/21	24/21	27/21	30/21	2/22	5/22	12/22	15/22	18/22	21/22	24/22	27/22	30/22	2/23	5/23	12/23	15/23	18/23	21/23	24/23	27/23	30/23	2/24	5/24	12/24	15/24	18/24	21/24	24/24	27/24	30/24	2/25	5/25	12/25	15/25	18/25	21/25	24/25	27/25	30/25	2/26	5/26	12/26	15/26	18/26	21/26	24/26	27/26	30/26	2/27	5/27	12/27	15/27	18/27	21/27	24/27	27/27	30/27	2/28	5/28	12/28	15/28	18/28	21/28	24/28	27/28	30/28	2/29	5/29	12/29	15/29	18/29	21/29	24/29	27/29	30/29	2/30	5/30	12/30	15/30	18/30	21/30	24/30	27/30	30/30	2/31	5/31	12/31	15/31	18/31	21/31	24/31	27/31	30/31	2/32	5/32	12/32	15/32	18/32	21/32	24/32	27/32	30/32	2/33	5/33	12/33	15/33	18/33	21/33	24/33	27/33	30/33	2/34	5/34	12/34	15/34	18/34	21/34	24/34	27/34	30/34	2/35	5/35	12/35	15/35	18/35	21/35	24/35	27/35	30/35	2/36	5/36	12/36	15/36	18/36	21/36	24/36	27/36	30/36	2/37	5/37	12/37	15/37	18/37	21/37	24/37	27/37	30/37	2/38	5/38	12/38	15/38	18/38	21/38	24/38	27/38	30/38	2/39	5/39	12/39	15/39	18/39	21/39	24/39	27/39	30/39	2/40	5/40	12/40	15/40	18/40	21/40	24/40	27/40	30/40	2/41	5/41	12/41	15/41	18/41	21/41	24/41	27/41	30/41	2/42	5/42	12/42	15/42	18/42	21/42	24/42	27/42	30/42	2/43	5/43	12/43	15/43	18/43	21/43	24/43	27/43	30/43	2/44	5/44	12/44	15/44	18/44	21/44	24/44	27/44	30/44	2/45	5/45	12/45	15/45	18/45	21/45	24/45	27/45	30/45	2/46	5/46	12/46	15/46	18/46	21/46	24/46	27/46	30/46	2/47	5/47	12/47	15/47	18/47	21/47	24/47	27/47	30/47	2/48	5/48	12/48	15/48	18/48	21/48	24/48	27/48	30/48	2/49	5/49	12/49	15/49	18/49	21/49	24/49	27/49	30/49	2/50	5/50	12/50	15/50	18/50	21/50	24/50	27/50	30/50	2/51	5/51	12/51	15/51	18/51	21/51	24/51	27/51	30/51	2/52	5/52	12/52	15/52	18/52	21/52	24/52	27/52	30/52	2/53	5/53	12/53	15/53	18/53	21/53	24/53	27/53	30/53	2/54	5/54	12/54	15/54	18/54	21/54	24/54	27/54	30/54	2/55	5/55	12/55	15/55	18/55	21/55	24/55	27/55	30/55	2/56	5/56	12/56	15/56	18/56	21/56	24/56	27/56	30/56	2/57	5/57	12/57	15/57	18/57	21/57	24/57	27/57	30/57	2/58	5/58	12/58	15/58	18/58	21/58	24/58	27/58	30/58	2/59	5/59	12/59	15/59	18/59	21/59	24/59	27/59	30/59	2/60	5/60	12/60	15/60	18/60	21/60	24/60	27/60	30/60	2/61	5/61	12/61	15/61	18/61	21/61	24/61	27/61	30/61	2/62	5/62	12/62	15/62	18/62	21/62	24/62	27/62	30/62	2/63	5/63	12/63	15/63	18/63	21/63	24/63	27/63	30/63	2/64	5/64	12/64	15/64	18/64	21/64	24/64	27/64	30/64	2/65	5/65	12/65	15/65	18/65	21/65	24/65	27/65	30/65	2/66	5/66	12/66	15/66	18/66	21/66	24/66	27/66	30/66	2/67	5/67	12/67	15/67	18/67	21/67	24/67	27/67	30/67	2/68	5/68	12/68	15/68	18/68	21/68	24/68	27/68	30/68	2/69	5/69	12/69	15/69	18/69	21/69	24/69	27/69	30/69	2/70	5/70	12/70	15/70	18/70	21/70	24/70	27/70	30/70	2/71	5/71	12/71	15/71	18/71	21/71	24/71	27/71	30/71	2/72	5/72	12/72	15/72	18/72	21/72	24/72	27/72	30/72	2/73	5/73	12/73	15/73	18/73	21/73	24/73	27/73	30/73	2/74	5/74	12/74	15/74	18/74	21/74	24/74	27/74	30/74	2/75	5/75	12/75	15/75	18/75	21/75	24/75	27/75	30/75	2/76	5/76	12/76	15/76	18/76	21/76	24/76	27/76	30/76	2/77	5/77	12/77	15/77	18/77	21/77	24/77	27/77	30/77	2/78	5/78	12/78	15/78	18/78	21/78	24/78	27/78	30/78	2/79	5/79	12/79	15/79	18/79	21/79	24/79	27/79	30/79	2/80	5/80	12/80	15/80	18/80	21/80	24/80	27/80	30/80	2/81	5/81	12/81	15/81	18/81	21/81	24/81	27/81	30/81	2/82	5/82	12/82	15/82	18/82	21/82	24/82	27/82	30/82	2/83	5/83	12/83	15/83	18/83	21/83	24/83	27/83	30/83	2/84	5/84	12/84	15/84	18/84	21/84	24/84	27/84	30/84	2/85	5/85	12/85	15/85	18/85	21/85	24/85	27/85	30/85	2/86	5/86	12/86	15/86	18/86	21/86	24/86	27/86	30/86	2/87	5/87	12/87	15/87	18/87	21/87	24/87	27/87	30/87	2/88	5/88	12/88	15/88	18/88	21/88	24/88	27/88	30/88	2/89	5/89	12/89	15/89	18/89	21/89	24/89	27/89	30/89	2/90	5/90	12/90	15/90	18/90	21/90	24/90	27/90	30/90	2/91	5/91	12/91	15/91	18/91	21/91	24/91	27/91	30/91	2/92	5/92	12/92	15/92	18/92	21/92	24/92	27/92	30/92	2/93	5/93	12/93	15/93	18/93	21/93	24/93	27/93	30/93	2/94	5/94	12/94	15/94	18/94	21/94	24/94	27/94	30/94	2/95	5/95	12/95	15/95	18/95	21/95	24/95	27/95	30/95	2/96	5/96	12/96	15/96	18/96	21/96	24/96	27/96	30/96	2/97	5/97	12/97	15/97	18/97	21/97	24/97	27/97	30/97	2/98	5/98	12/98	15/98	18/98	21/98	24/98	27/98	30/98	2/99	5/99	12/99	15/99	18/99	21/99	24/99	27/99	30/99	2/100	5/100	12/100	15/100	18/100	21/100	24/100	27/100	30/100	2/101	5/101	12/101	15/101	18/101	21/101	24/101	27/101	30/101	2/102	5/102	12/102	15/102	18/102	21/102	24/102	27/102	30/102	2/103	5/103	12/103	15/103	18/103	21/103	24/103	27/103	30/103	2/104	5/104	12/104	15/104	18/104	21/104	24/104	27/104	30/104	2/105	5/105	12/105	15/105	18/105	21/105	24/105	27/105	30/105	2/106	5/106	12/106	15/106	18/106	21/106	24/106	27/106	30/106	2/107	5/107	12/107	15/107	18/107	21/107	24/107	27/107	30/107	2/108	5/108	12/108	15/108	18/108	21/108	24/108	27/108	30/108	2/109	5/109	12/109	15/109	18/109	21/109	24/109	27/109	30/109	2/110	5/110	12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