

Port of Amsterdam

Received at London Office

TUES. 11 AUG 1903

No. in Survey held at Amsterdam Date, first Survey July 1902 Last Survey 15 July 1903
 Reg. Book. 2 (Number of Visits 34)
 on the Steel Screw Steamer *Jipangas* Tons { Gross 3847
 Supplement 1 Net 2445
 Master J. Lwart Built at Amsterdam By whom built Ned Scheepsbouw Maats When built 1903
 Engines made at Amsterdam By whom made Ned Lab o Werk & Spoor Maat when made 1903
 Boilers made at Amsterdam By whom made Ned Lab o Werk & Spoor Maat when made 1903
 Registered Horse Power 350 Owners Java, China, Japan Lijn Port belonging to Batavia
 Nom. Horse Power as per Section 28 350 Is Refrigerating Machinery fitted No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders three No. of Cranks three
 Dia. of Cylinders 23 1/2" * 37" * 64 3/8" Length of Stroke 106 1/2" Revs. per minute 75 Dia. of Screw shaft as per rule 339.7 = 3.1 Material of screw shaft steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight
 in the propeller boss Yes If the liner is in more than one length are the joints burned Yes 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 1400 mm
 Dia. of Tunnel shaft as per rule 2.93 = 11.5" Dia. of Crank shaft journals as per rule 3.05 = 12.07" Dia. of Crank pin 31 1/2" Size of Crank webs ✓ Dia. of thrust shaft under
 collars 31 1/2" Dia. of screw 16' 3" Pitch of screw 16' 6" No. of blades four State whether moveable Yes Total surface 764 ft.
 No. of Feed pumps two Diameter of ditto 110 Stroke 550 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps two Diameter of ditto 110 Stroke 550 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines two Sizes of Pumps 8" x 6" x 21" Weirs No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room three 90 mm In Holds, &c. N° 1 hold two 90 mm N° 2 hold two 90 mm N° 3 hold two
90 mm N° 4 hold two 90 mm N° 5 hold two 90 mm tunnel runs One of 45 mm
 No. of bilge injections One sizes 100 mm Connected to condenser, on to circulating pump Yes Is a separate donkey suction fitted in Engine room & size Yes 100 mm
 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 None 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
 When were stern tube, propeller, screw shaft, and all connections examined during Construction Is the screw shaft tunnel watertight Yes
 Is it fitted with a watertight door Yes worked from Upper platform in Eng Room

BOILERS, &c.—(Letter for record R) Total Heating Surface of Boilers 4973 ft. Is forced draft fitted Yes
 No. and Description of Boilers Three Single Ended tubular Working Pressure 12.65 kg Tested by hydraulic pressure to 25.3 kg
 Date of test 6.5.03 Can each boiler be worked separately Yes Area of fire grate in each boiler 3.84 m. No. and Description of safety valves to
 each boiler direct spring Area of each valve 34.5 cm. Pressure to which they are adjusted 12.65 kg Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork ✓ Mean dia. of boilers 3640 Length 3610 Material of shell plates steel
 Thickness 25 Range of tensile strength 45-52 kg Are they welded or flanged ✓ Descrip. of riveting: cir. seams double riveted long. seams double butt strap
 Diameter of rivet holes in long. seams 18 mm Pitch of rivets 100 mm Lap of plates or width of butt straps 412 mm
 Per centages of strength of longitudinal joint rivets 89.4 Working pressure of shell by rules 12.95 kg Size of manhole in shell 305 x 407 mm
plate 25.1
 Size of compensating ring 711 x 115 x 31.7 No. and Description of Furnaces in each boiler Two Morrison Material steel Outside diameter 1200 mm
 Length of plain part top 2360 Thickness of plates bottom 14.5 Description of longitudinal joint Welded No. of strengthening rings ✓
 Working pressure of furnace by the rules 13.1 kg Combustion chamber plates: Material steel Thickness: Sides 16 Back 16 Top 16 Bottom 16
 Pitch of stays to ditto: Sides 180 x 180 Back 180 x 180 Top 180 x 225 If stays are fitted with nuts or riveted heads top and bottom riveted heads Working pressure by rules 14.2 kg
 Material of stays iron Diameter at smallest part 38.5 Area supported by each stay 3240 Working pressure by rules 14.7 End plates in steam space:
 Material steel Thickness 25 Pitch of stays 450 x 450 How are stays secured riveted wash and nuts Working pressure by rules 13.3 kg Material of stays steel
 Diameter at smallest part 66 Area supported by each stay 18490 Working pressure by rules 13.6 kg Material of Front plates at bottom steel
 Thickness 25 Material of Lower back plate steel Thickness 25 Greatest pitch of stays 380 x 275 Working pressure of plate by rules 14.3 kg
 Diameter of tubes 70 mm Pitch of tubes 905 x 95 Material of tube plates steel Thickness: Front 25 + doubling Back 22 Mean pitch of stays 290
 Pitch across wide water spaces 345 Working pressures by rules 14.5 and 21.9 kg Girders to Chamber tops: Material steel Depth and
 thickness of girder at centre 240 x 44 Length as per rule 940 Distance apart 225 Number and pitch of Stays in each 4 — 180 mm
 Working pressure by rules 12.1 Superheater or Steam chest; how connected to boiler ✓ Can the superheater be shut off and the boiler worked
 separately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet
 holes ✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓
 If stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓
 Working pressure of end plates ✓ Area of safety valves to superheater ✓ Are they fitted with easing gear ✓

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Lloyd's Register

W6970238

DONKEY BOILER— No. Description *One of the mainboilers is to be used for donkey boiler.*
 Made at By whom made When made Where fixed
 Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves
 No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main boilers can enter the donkey boiler
 Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile strength
 Descrip. of riveting long. seams Rivets Dia. of rivet holes Whether punched or drilled Pitch of rivets
 Lap of plating Per centage of strength of joint Plates Thickness of shell crown plates Radius of do. No. of Stays to do.
 Dia. of stays. Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint
 Thickness of furnace crown plates Stayed by Working pressure of shell by rules
 Working pressure of furnace by rules Diameter of uptake Thickness of uptake plates Thickness of water tubes

SPARE GEAR. State the articles supplied:— *One spare propeller shaft for the two sister vessels. One propeller. One set of crosshead, crankpin and main bearing brasses with spare bolts and nuts, One set of coupling bolts, One spare piston rod and ditto valve spindle, One Compl link motion two eccentric pulleys and straps, One Compl set of valves for air, feed and bilge pumps, Crankshaft for Centrifugal and ditto fan. Spare valve for Weirs & ballast pumps. Four springs for safety valves, a quantity of Condenser and boiler tubes, bolts and nuts assorted & materials for wear and tear.*
The foregoing is a correct description,
MANUFACTURER.
VAN WERTUIJSEN EN SPOORWEG-MATERIEEL.

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - -
 Total No. of s. *34*
July 1902, till July 18 1903.
 Is the approved plan of main boiler forwarded herewith *Yes*
 " " " donkey " " " *Yes*

General Remarks (State quality of workmanship, opinions as to class, &c.)
*The machinery of this vessel has been built in accordance with this Society's Rules and material duly tested as required, All Castings perfectly sound and after having been machined tested under hydraulic pressure and found tight. The mainboilers three in number, have been constructed according to the approved plan and rules, workmanship throughout good, material tested as required according to the specified strength, boilers tested under hydraulic pressure to twice the working pressure 25.3 kg per sq cm. found tight in every respect and no settling whatever. Safety valves adjusted under steam and set to 180 lbs per sq inch. Boiler mountings and fastenings good. Mainsteam pipes bored out from the solid (steel bar) tested after having been set and completed, to 50 atmospheres, found same perfectly tight. The whole of the machinery including auxiliary engines examined under steam and all the pumps tested on the different compartments, found same in a very good working condition.
 I am of opinion that this vessel is eligible to be recorded in the Register Book.*

LMC-8.1903 F.D.
 It is submitted that this vessel is eligible for THE RECORD. - LMC. 7.03. F.D. ELEC LIGHT

The amount of Entry Fee.. £ 3 : 0 :
 Special .. £ 34 : 10 :
 Donkey Boiler Fee .. £ 3 : 3 :
 Travelling Expenses (if any) £ 1 : 2 :
 When applied for, 1903
 When received, 24.8.03
 Committee's Minute **FRI. 21 AUG 1903**
 Assigned *+ LMC 7.03*
 F.D.
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