

REPORT ON MACHINERY.

No. 11990

MON. OCT. 10 1921

Date of writing Report 6 Oct 1921 When handed in at Local Office

Port of Rotterdam

To. in Survey held at Sluikhuysen Date, First Survey 9 Nov 1920 Last Survey 28 Sep 1921
 Reg. Book. on the Steel Steamer ANJER ex MARISTO (Number of Visits 16) Gross 5103.95
 Tons Net 3738.46

Master J. J. Buijning Built at Sluikhuysen By whom built N. V. Ind. Schipbouw B. V. When built 1921
 Engines made at Hengelo By whom made G. B. Stok. & de Haas when made 1921
 Boilers made at ditto By whom made ditto when made 1921

Registered Horse Power 300 Owners Rotterdamche Lloyd Port belonging to Rotterdam
 m. Horse Power as per Section 28 300 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

GINES, &c.—Description of Engines See Amsterdam Rep N: 8381 No. of Cylinders 2 No. of Cranks 2
 Length of Stroke 90 Revs. per minute 90 Dia. of Screw shaft as per rule Material of screw shaft as fitted

Is the after end of the liner made water tight yes
 If the liner does not fit tightly at the part no
 If the liner is in more than one length are the joints burned no
 If the liner does not fit tightly at the part no
 Between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yes
 If two no
 Length of stern bush no
 Are the shafts lapped or protected between the liners no

a. of Tunnel shaft as per rule Dia. of Crank shaft journals as per rule Dia. of Crank pin as per rule Size of Crank webs as per rule Dia. of thrust shaft under as per rule
 as fitted as fitted as fitted as fitted as fitted as fitted as fitted as fitted as fitted as fitted

Bars Dia. of screw 16" Pitch of Screw 17'-0" No. of Blades 4 State whether moveable no Total surface 60 sq
 Can one be overhauled while the other is at work yes
 Can one be overhauled while the other is at work yes

o. of Feed pumps 4 Diameter of ditto 8" Stroke 10" No. and size of Suctions connected to both Bilge and Donkey pumps 2 x 3 1/2"
 o. of Bilge pumps 4 Diameter of ditto 8" Stroke 10" In Holds, &c. I 2 x 3 1/2" II 2 x 3 1/2" III 2 x 3 1/2"
 o. of Donkey Engines 4 Sizes of Pumps 8" x 10" x 10" Engine Room 4 x 3 1/2" x 2 x 3 1/2" Tunnel 1 x 2 3/4" x 6" x 5" x 12"

o. of Bilge Injections 1 sizes 8" Connected to condenser or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size 1 x 3 1/2"
 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 yes
 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
 How are they protected yes
 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 yes Is it fitted with a watertight door yes worked from E.R. top platform

BOILERS, &c.—(Letter for record yes) Manufacturers of Steel See Amsterdam Rep N: 8381
 Is Forced Draft fitted yes No. and Description of Boilers See Amsterdam Rep N: 8381
 Total Heating Surface of Boilers 2 Springboilers Tested by hydraulic pressure to 105 lbs. Date of test 10 Oct 1921 No. of Certificate 105 lbs.

Working Pressure 105 lbs. Area of fire grate in each boiler 20" No. and Description of Safety Valves to 105 lbs.
 Can each boiler be worked separately yes Area of each valve 105 lbs. Pressure to which they are adjusted 105 lbs. Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 20" Mean dia. of boilers 20" Length 20" Material of shell plates 20"
 Thickness 20" Range of tensile strength 20" Are the shell plates welded or flanged 20" Descrip. of riveting: cir. seams 20"
 Lap of plates or width of butt straps 20" Descrip. of riveting: cir. seams 20"
 Size of compensating ring 20" No. and Description of Furnaces in each boiler 20" Material 20" Outside diameter 20"
 Length of plain part 20" Thickness of plates 20" Description of longitudinal joint 20" No. of strengthening rings 20"
 Working pressure of furnace by the rules 20" Combustion chamber plates: Material 20" Thickness: Sides 20" Back 20" Top 20" Bottom 20"
 Pitch of stays to ditto: Sides 20" Back 20" Top 20" If stays are fitted with nuts or riveted heads 20" Working pressure by rules 20" End plates in steam space: 20"
 Material of stays 20" Area at smallest part 20" Area supported by each stay 20" Working pressure by rules 20" Material of stays 20"
 Material 20" Thickness 20" Pitch of stays 20" How are stays secured 20" Working pressure by rules 20" Material of Front plates at bottom 20"
 Area at smallest part 20" Area supported by each stay 20" Working pressure by rules 20" Material of Front plates at bottom 20"
 Thickness 20" Material of Lower back plate 20" Thickness 20" Greatest pitch of stays 20" Working pressure of plate by rules 20"
 Diameter of tubes 20" Pitch of tubes 20" Material of tube plates 20" Thickness: Front 20" Back 20" Mean pitch of stays 20"
 Girders to Chamber tops: Material 20" Depth and 20"
 Thickness of girder at centre 20" Length as per rule 20" Distance apart 20" Number and pitch of stays in each 20"
 Working pressure by rules 20" Steam dome: description of joint to shell 20" % of strength of joint 20"
 Diameter 20" Thickness of shell plates 20" Material 20" Description of longitudinal joint 20" Diam. of rivet holes 20"
 Pitch of rivets 20" Working pressure of shell by rules 20" Crown plates 20" Thickness 20" How stayed 20"
 Tested by Hydraulic Pressure to 20"

3. SUPERHEATER. Type yes Date of Approval of Plan yes Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler yes
 Date of Test yes Is Easing Gear fitted yes
 Diameter of Safety Valve yes Pressure to which each is adjusted yes

W281-0128

Lloyd's Register

Foundation

IS A DONKEY BOILER FITTED? *no*

If so, is a report now forwarded? *✓*

SPARE GEAR. State the articles supplied:— 2 Top end bolts and nuts, 2 bottom end bolts and nuts, 2 main bearing bolts, 1 set of coupling bolts, 1 set of piston rings, 1 set of feed and bilge pump valves, 2 quantity of amked belt and iron of various sizes, 1 tailshaft with propeller, 1 set of bottom end frames, 1 set of top end braces, 1 slide valve spindle, 1 eccentric rod, 1 feed pump ram, 2 eccentric straps, 1 set of air pump valves air pump, 6 junky bolts, 6 condenser tubes, 100 firebricks, 26 plain + 4 stay tube

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 9/4. 20/4. 13/4. 19/4. 20/4. 10/5. 19/5. 2/6. 2/6. 26/8. 3/9. 10/9. 13/9. 20/9. 28/9. 19/9.
During erection on board vessel - - -
Total No. of visits 16

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

Dates of Examination of principal parts—Cylinders *✓* Slides *✓* Covers *✓* Pistons *✓* Rods *✓*
Connecting rods *✓* Crank shaft *✓* Thrust shaft *✓* Tunnel shafts *✓* Screw shaft *✓* Propeller *✓*
Stern tube *✓* Steam pipes tested 5.7.21. Engine and boiler seatings 30.5.21. Engines holding down bolts 5.7.21.
Completion of pumping arrangements 13.9.21. Boilers fixed 5.7.21. Engines tried under steam 20.9.21.
Completion of fitting sea connections 30.5.21. Stern tube 30.5.21. Screw shaft and propeller 30.5.21.
Main boiler safety valves adjusted 20.9.21. Thickness of adjusting washers S.B. 1 1/2. 1" C 1. 7/8. P 7/8. 1 5/16
Material of Crank shaft *✓* Identification Mark on Do. *✓* Material of Thrust shaft *✓* Identification Mark on Do. *✓*
Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *✓* Identification Marks on Do. *✓*
Material of Steam Pipes *✓* Test pressure *✓*
Is an installation fitted for burning oil fuel *yes* Is the flash point of the oil to be used over 150°F. *yes*
Have the requirements of Section 49 of the Rules been complied with *yes*
Is this machinery duplicate of a previous case *no* If so, state name of vessel *✓*

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

The machinery has been fitted in accordance with the Society's Rules, approved plans and Secretary's letters, it has run satisfactorily during a trial and may in my opinion be recorded in the Society's Register Book with + L.M.C. 9-21 fitted for burning oil fuel, Flash point above 150°F.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 9.21 FD.

Fitted for Oil Fuel 9.21 FP above 150°F

Recd

25/10/21

ARR

The amount of Entry Fee ... £ 200.00
Special 1/5 ... £ 200.00
Donkey Boiler Fee ... £ 60.00
Travelling Expenses (if any) ...
When applied for, The 1921
When received, 11.10.1921

FRI. OCT. 28 1921

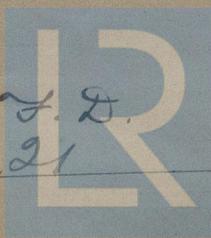
Committee's Minute

Assigned

MACHINERY CERT.
WRITTEN.

+ L.M.C. 9.21.
Listed for oil fuel 9.21
F.P. above 150°F.

Engineer Surveyor to Lloyd's Register of Shipping.



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