

# REPORT ON MACHINERY.

No. 26681

## REF

Received at London Office

18 SEP 1926

Date of writing

Sept 19 26 When handed in at Local Office 3<sup>rd</sup> Sept. 1926 Port of New York

Date, First Survey 25 Sept. '25 Last Survey 27 August 1926

Reg. in No. in Reg. Doc. 70570526

steel screw steamer MUNORLEANS REG. GENERAL G. W. GOETHALS

Gross 4418

Net 2607

When built 1911

Built at Vege sack By whom built Bremer Vulkan

when made 1911

when made 1911

Maste made at Vege sack

By whom made Bremer Vulkan

Boilers made at do

By whom made do

Registered Horse Power

Owners Munson S. S. Line

Port belonging to New York

Nom. Horse Power as per Section 28 604

Is Refrigerating Machinery fitted for cargo purposes no

Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Quadruple Expansion No. of Cylinders 4 No. of Cranks 4

Dia. of Cylinders 24-34-50-74 Length of Stroke 53 1/2 Revs. per minute 85 Dia. of Screw shaft as per rule 15" 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 - 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 5'-2"

Dia. of Tunnel shaft as per rule 13.6 Dia. of Crank shaft journals as per rule 14.3 Dia. of Crank pin 14 3/8 Size of Crank webs 9 3/8 Dia. of thrust shaft under

collars 14 5/8 Dia. of screw 17'-9" Pitch of Screw 17'-0" No. of Blades 4 State whether moveable yes Total surface 99 sq ft

No. of Feed pumps 2 Diameter of ditto 4 1/2 Stroke 26 1/2 Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 5 Stroke 26 1/2 Can one be overhauled while the other is at work yes

No. of Donkey Engines 2 Sizes of Pumps 10x16x14, 9x5 1/2 x 9 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 4-5" In Holds, &c. 1-4" each side 90 m/ft on plan

No. of Bilge Injections 1 sizes 8" Connected to condenser or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size

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 Valves

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 below

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

Are all pipes 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

Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from Upper deck

OILERS, &c.—(Letter for record S) Manufacturers of Steel

Total Heating Surface of Boilers 8634 sq ft Is Forced Draft fitted yes No. and Description of Boilers 3 S.E. Scotch type

Working Pressure 220 lbs Tested by hydraulic pressure to 232 lbs Date of test 30.8.26 No. of Certificate 3013

Can each boiler be worked separately yes Area of fire grate in each boiler 66.2 sq ft No. and Description of Safety Valves to

each boiler 2 spring loaded Area of each valve 12.56 sq in Pressure to which they are adjusted 180 lbs Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 15" Mean dia. of boilers 15'-3" Length 12'-1" Material of shell plates steel

Thickness 17/32 Range of tensile strength 64000 lbs Are the shell plates welded or flanged no Descrip. of riveting: cir. seams D.R. lap

Longitudinal seams QRDBS Diameter of rivet holes in long. seams 17/32 Pitch of rivets 19.2" Lap of plates or width of butt straps 32 5/8"

Percentages of strength of longitudinal joint rivets Scalloped shop Working pressure of shell by rules 232 lbs Size of manhole in shell 11 1/2 x 12 3/4

Area of compensating ring 13 x 13 1/2 No. and Description of Furnaces in each boiler 3 Morrison Material steel Outside diameter 49 1/2"

Length of plain part top 43" Thickness of plates bottom 64" Description of longitudinal joint welded No. of strengthening rings 1

Working pressure of furnace by the rules 224 lbs Combustion chamber plates: Material steel Thickness: Sides 45/64 Back 45/64 Top 45/64 Bottom 55/64

Thickness of stays to ditto: Sides 6 1/4 x 7 1/2 Back 7 x 7 1/2 Top 7 1/2 x 8 1/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 263 lbs

Material of stays steel Area at smallest part 1.45 sq in Area supported by each stay 53 Working pressure by rules 220 lbs End plates in steam space:

Material steel Thickness 1 1/16 Pitch of stays 14 1/4 x 14 3/4 How are stays secured Double nuts Working pressure by rules 255 lbs Material of stays steel

Area at smallest part 5.65 sq in Area supported by each stay 210 sq in Working pressure by rules 280 lbs Material of Front plates at bottom steel

Thickness 1 3/32 Material of Lower back plate steel Thickness 1 3/4 Greatest pitch of stays 11 1/4 x 13 3/4 Working pressure of plate by rules 242 lbs

Diameter of tubes 2 3/4" Pitch of tubes 3 1/2" Material of tube plates steel Thickness: Front 1 3/32 Back 29/32 Mean pitch of stays 7 3/8"

Pitch across wide water spaces 13 3/4" Working pressures by rules 226 lbs Girders to Chamber tops: Material steel Depth and

Thickness of girder at centre 9 1/2 x 1 1/16 Length as per rule 33 Distance apart 8 1/2" Number and pitch of stays in each 3-7 3/8"

Working pressure by rules 220 lbs Steam dome: description of joint to shell none % of strength of joint -

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

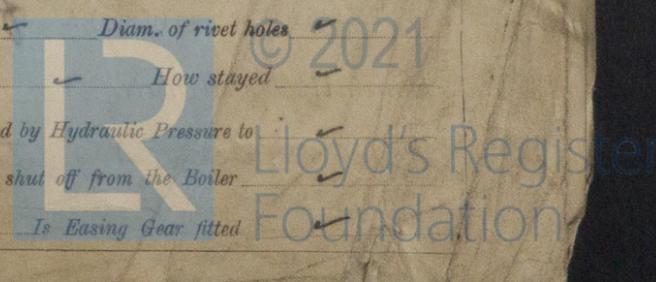
Pitch of rivets - Working pressure of shell by rules - Crown plates - Thickness - How stayed -

SUPERHEATER. Type none Date of Approval of Plan - Tested by Hydraulic Pressure to -

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

Diameter of Safety Valve - Pressure to which each is adjusted - Is Easing Gear fitted -

W499-0154



IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— One pair top end bolts + nuts, One pair bottom end bolts + nuts, one set shaft coupling bolts, one pair main bearing bolts. Feed + bilge pump valves, assorted nuts bolts + iron.

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

Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts—Cylinders Slides Covers Pistons Rods

Connecting rods Crank shaft 30/7/26 Thrust shaft 30/7/26 Tunnel shafts 25/9/25 Screw shaft 25/9/25 Propeller 25/9/25

Stern tube 25/9/25 Steam pipes tested Engine and boiler seatings 19/8/26 Engines running down base

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted 27/8/26 Thickness of adjusting washers

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 Mark on Do.

Material of Steam Pipes Test Report

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 YES If so, state name of vessel MANDA

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

The machinery of this vessel has not been built under Survey but it has been examined & found to be in accordance with the Rules, & the workmanship & material are good.

For particulars of examination made please see repair report herewith.

The machinery of this vessel is now in good & safe working condition & eligible in my opinion to receive the notation LMC 8.26 when the survey is completed.

The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £	Included	When applied for,
Special ... £	in	19...
Donkey Boiler Fee ... £	Hull	When received,
Travelling Expenses (if any) £	fee.	19...

Committee's Minute

Assigned See Rpt. 9 attached

NEW YORK SEP 8 - 1926

John S. Heck,

Engineer, Surveyor to Lloyd's Register of Shipping.



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