

REPORT ON MACHINERY

No. 1228

Received at London Office

FRI. 4 JUL. 1921

Date of writing Report 25.5.1921 When handed in at Local Office

Port of

To. in Survey held at Newcastle at L.W.

Date, First Survey

Last Survey

19

Reg. Book

on the *Star screw steamer**Chomango*

(Number of Visits)

Master

Built at *Newcastle*By whom built *at S.W. Port Dockyard*When built *1921*Engines made at *Newcastle*By whom made *at S.W. Port Dockyard*when made *1921*Boilers made at *Newcastle*By whom made *at S.W. Port Dockyard*when made *1921*

Registered Horse Power

Owners *Commercial Line of S. S. S. S.*Port belonging to *United Kingdom*

Horse Power as per Section 28

*519*Is Refrigerating Machinery fitted for cargo purposes *No*Is Electric Light fitted *Yes*ENGINES, &c.—Description of Engines *Triple Expansion*No. of Cylinders *3*No. of Cranks *3*Dia. of Cylinders *30 41 68*Length of Stroke *45*Revs. per minute *75*

Dia. of Screw shaft

as per rule *13 3/4*Material of *Steel*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

the propeller boss *Yes*If the liner is in more than one length are the joints burned *Sweated*

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 *Yes*

If two

liners are fitted, is the shaft lapped or protected between the liners *Yes*Length of stern bush *5' 0"*

Dia. of Tunnel shaft

as per rule *12 1/2*

Dia. of Crank shaft journals

as per rule *13 1/2*Dia. of Crank pin *13 1/2*Size of Crank webs *27 1/2 x 8 1/2*

Dia. of thrust shaft under

lars *13 1/2*Dia. of screw *16 1/2*Pitch of Screw *16 1/2*No. of Blades *4*State whether movable *No*

Total surface

No. of Feed pumps *2*Diameter of ditto *7 1/2*Stroke *21*Can one be overhauled while the other is at work *Yes*No. of Bilge pumps *2*Diameter of ditto *3 1/2*Stroke *24*Can one be overhauled while the other is at work *Yes*No. of Donkey Engines *1*Sizes of Pumps *12 1/2 x 21*

No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room *3-3 1/2 Dia.**1-4 1/2 Dia.*In Holds, &c. *6-3 1/2 Dia.**5 Holds, 3 1/2 Dia.**to Tunnel*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 *No*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 *Other as used*Are they Valves or Cocks *Valves*Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates *No*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 present*How are they protected *Wood casing*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 *Main Deck*

VALVES, &c.—(Letter for record)

Manufacturers of Steel *Robert Stewart & Lloyd*Total Heating Surface of Boilers *3287 sq ft*Is Forced Draft fitted *Yes*No. and Description of Boilers *3 Water tube S.W. pattern*Working Pressure *190 lbs*Tested by hydraulic pressure to *440 lbs*

Date of test

No. of Certificate

Can each boiler be worked separately *Yes*Area of fire grate in each boiler *84.5 sq ft*

No. and Description of Safety Valves to

boiler *2 Spring loaded*Area of each valve *9 1/4*Pressure to which they are adjusted *190 lbs*Are they fitted with easing gear *Yes*

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates *Steel*Thickness *3/16*

Range of tensile strength

Are the shell plates welded or flanged *Yes*Descrip. of riveting: cir. seams *Double Lap*seams *Double Lap*Diameter of rivet holes in long. seams *5/32*Pitch of rivets *3 1/4*Lap of plates or width of butt straps *9"*

Percentages of strength of longitudinal joint

rivets *77.5%*plate *77.8%*Working pressure of shell by rules *310*Size of manhole in shell *11" x 15"*No. of compensating ring *22 x 25 x 7/8*

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top

Thickness of plates

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

No. of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material *Steel*Thickness *13/16*

Pitch of stays

How are stays secured

Working pressure by rules *240*

Material of stays

Area at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate *S. Hadley*Thickness *1 1/8*

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes *1 1/2*Pitch of tubes *2 7/8*Material of tube plates *Steel*

Thickness: Front

Back

Mean pitch of stays *7"*

Girders across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

Thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates *3/16*Material *Steel*Description of longitudinal joint *Weld*

Diam. of rivet holes

No. of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

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

Pressure to which each is adjusted

Is Easing Gear fitted

Name of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

3460-0206

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

SPARE GEAR. State the articles supplied:— Connecting Rod, top and bolts & nuts, 2 supplied and 2 bottom end bolts & nuts, 2 main bearing bolts & nuts, 3 coupling bolts & nuts, 3 crank shaft bolts & nuts, 1 set of rings for H.P. piston, 1 set of valves for ballast pump also set of Ballast rings for same, one set each suction & delivery valves for feed pump, one set each suction & delivery valves for bilge pump, one spare propeller, one spare propeller shaft, one set of piston rings for circulating pump, one set of spare rings for electric lighting engine at Governor's Springs. Various bolts & nuts, assorted, and several bars of iron.

The foregoing is a correct description.

A. C. Mates Shipyard Manage. f/ Manufacturer.

Dates of Survey while building	During progress of work in shops - -	6/5/20	26/5/20	14/6/20	24/6/20	8/7/20	29/7/20	31/7/20	11/8/20	25/8/20	30/8/20	14/9/20	29/9/20	11/10/20
	During erection on board vessel - -	12/10/20	20/10/20	31/10/20	17/11/20	24/11/20	4/12/20	10/12/20	20/12/20	12/1/21	15/1/21	29/1/21	7/2/21	19/2/21
	Total No. of visits	22												

Is the approved plan of main boiler forwarded herewith

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“ “ “ donkey “ “

Dates of Examination of principal parts—Cylinders 16.4.20 Slides 16.6.20 Covers 21.7.20 Pistons 31.7.20 Rods 25/2/20

Connecting rods 16-9-20 Crank shaft 11-8-20 Thrust shaft 25-8-20 Tunnel shafts 16-9-20 Screw shaft 12-10-20 Propeller 20-10-20

Stern tube 14-2-21 Steam pipes tested 30.3.21 Engine and boiler seatings 12-1-21 Engines holding down bolts 4-2-21

Completion of pumping arrangements 11-4-20 Boilers fixed 18-1-20 Engines tried under steam 15-4-20

Completion of fitting sea connections 25-2-21 Stern tube 19-2-21 Screw shaft and propeller 22-2-21

Main boiler safety valves adjusted 2-4-24 Thickness of adjusting washers Not Boiler 1/2" 7/8" C.B. 5/8" 9/16" S.B. 1/2" 7/8"

Material of Crank shaft Steel Identification Mark on Do. 44402 Material of Thrust shaft Steel Identification Mark on Do. 44402

Material of Tunnel shafts Steel Identification Marks on Do. None Material of Screw shafts Steel Identification Marks on Do. None

Material of Steam Pipes Steel Test pressure 600 lbs

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. ☒

Is this machinery duplicate of a previous case Yes If so, state name of vessel, "Schungra, Tanager, Dilgo, Curule"

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

1888

The ~~uncommon~~ ~~and~~ ~~various~~ ~~used~~ in the construction of these

designated borders and general plans as of the best of its respective kind.

and in accordance with Rule and is eligible in my opinion to

Have record and ~~notations~~ made in Regular Notes of 12 MC $\Delta\Delta$ 4-31

It is submitted, that
this vessel is eligible for

THE RECORD. +LMC. 4.21. ED. C1

0-31-11-13 No. 1000000

being pursued continually and to the lower S. H.

Being specially recommended by the

1. I examined the joints

of the river before the end of April 1923

1871

18/7/21

The amount of Entry Fee \$

Special _____

Donkey Boiler Fee ... £

Travelling Expenses (if any) £ : : *under 10/-* *1951* *1952*

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Assigned 7 Feb. 4. 21. F.D. c.L.

MASSINGERT CERT. *Subject* LLOYD'S REGISTER

