

REPORT ON MACHINERY.

No. 90507

Received at London Office

-7 AUG 1926

pt. 4.

-5 AUG 1926

Port of LIVERPOOL

Date of writing Report

When handed in at Local Office

No. in Survey held at
eg. Book.

Date, First Survey June 24th Last Survey July 29th 1926

(Number of Visits 2)

on the

Galtney
s/s "C. C. Mengel, Jr."

Tons }
Gross }
Net }

Master

Built at Galtney

By whom built J. Brighton & Co. Ltd.

When built 1926

Engines made at

Stockton

By whom made Barker & Sons

when made 1926

Boilers made at

Stockton

By whom made Riley Bros. Ltd.

when made 1926

Registered Horse Power

Owners Mengel Co. Ltd.

Port belonging to Axim

nom. Horse Power as per Section 28 2/

Is Refrigerating Machinery fitted for cargo purposes No

Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Compound

No. of Cylinders 2

No. of Cranks 2

Dia. of Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft

Material of screw shaft

Is the screw shaft fitted with a continuous liner the whole length of the stern tube No liner

Is the after end of the liner made water tight

Is the propeller boss fitted with a continuous liner the whole length of the stern tube No liner

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 1'6"

Dia. of Tunnel shaft

Dia. of Crank shaft journals

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

Collars

Dia. of screw

Pitch of Screw

No. of Blades

State whether moveable

Total surface

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Donkey Engines 1

Sizes of Pumps

Duplex 4 1/2" x 2 3/4" x 4"

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

In Engine Room

1-1/2" dia

In Holds, &c. Forward 1-1/2" dia. Aft 1-1/2" dia.

No. of Bilge Injections 1

sizes 2 1/2"

Connected to condenser, or to circulating pump circ. pumps a separate Donkey Suction fitted in Engine room & size 1 1/2" dia

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 None

Are all connections with the sea direct on the skin of the ship Yes

Are they Valves or Cocks Valves & Cocks

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

Is the Screw Shaft Tunnel watertight None

Is it fitted with a watertight door Yes

worked from Yes

OILERS, &c.—(Letter for record)

Manufacturers of Steel

Total Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

Each boiler

Area of each valve

Pressure to which they are adjusted 135 lb

Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 9"

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

Long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

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

Pitch 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

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

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

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Mean pitch of stays

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch 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

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

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

W1104-0412

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IS A DONKEY BOILER FITTED? *No.*

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,
For & on behalf of J. CRICHTON & CO. LTD.

J. B. Henderson
Director. Manufacturer.

Dates of Survey while building
{ During progress of work in shops - -
{ During erection on board vessel - - -
Total No. of visits *2.*

Is the approved plan of main boiler forwarded herewith

“ “ “ donkey “ “ “

Dates of Examination of principal parts—Cylinders	Slides	Covers	Pistons	Rods
Connecting rods	Crank shaft	Thrust shaft	Tunnel shafts	Screw shaft
Stern tube	Steam pipes tested <i>9/7/26</i>	Engine and boiler seatings <i>24/6/26, 29/7/26</i>	Engines holding down bolts <i>29/7/26</i>	Propeller <i>24/6/26</i>
Completion of pumping arrangements <i>29/7/26</i>	Boilers fixed <i>29/7/26</i>	Engines tried under steam <i>29/7/26</i>		
Completion of fitting sea connections <i>24/6/26</i>	Stern tube <i>24/6/26</i>	Screw shaft and propeller <i>24/6/26</i>		
Main boiler safety valves adjusted <i>29/7/26</i>	Thickness of adjusting washers <i>S. 5/32, P. 5/16</i>			
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 <i>Copper</i>		Test pressure <i>230 lb.</i>		

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 If so, state name of vessel

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

The Engines and Boilers (See Middleborough Reports Nos. 12691, 12693) have been securely fitted on board and tried under steam. The safety valves have been adjusted to the working pressure and tested for accumulation. When tried at sea under full working conditions same were found satisfactory in every respect.

In my opinion, the machinery is eligible to be closed with record in the Register Book of LMC 7.26

The pumping arrangements are in accordance with the approved plan and the Secretary's letter (E) of 7/5/26.

The spare gear has been completed

It is submitted that this vessel is eligible for THE RECORD + LMC 7.26.

R.A. 9/8/26 *G.R.K.*

The amount of Entry Fee ... £	:	:	When applied for, 2nd Mo. 1926
Special (Part. Fee) ... £	3	0	
Donkey Boiler Fee ... £	:	:	When received, Paid 13/9/26
Travelling Expenses (if any) £	-	11/6	

H. G. Oxford
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL - 6 AUG. 1926

Assigned + L.M.C. 7.26.

CERTIFICATE WRITTEN

Electric Light. 117
When fee is paid.



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