

Received at London Office

24 AUG. 1921

Date of writing Report 23/8 1921 When handed in at Local Office 23/8 1921 Port of Hull  
No. in Survey held at 100 Date, First Survey 26/10/20 Last Survey Aug 18 1921  
Reg. Book. on the S.S. "MICKLETON"  
Master Built at Beverley By whom built Robt Wether J. Gemmell  
Engines made at Hull By whom made Jas J. Holmes & Co. when made 1921  
Boilers made at do By whom made do when made 1921  
Registered Horse Power Owners W.C. Madley & Sons Port belonging to Hull  
Nom. Horse Power as per Section 28 110 109 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 14 1/2 - 24 - 40 Length of Stroke 27 Revs. per minute 112 Dia. of Screw shaft as per rule 8 1/2 Material of screw shaft as fitted 8 1/2  
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 yes If two liners are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 3-4  
Dia. of Tunnel shaft as per rule 7 1/2 Dia. of Crank shaft journals as per rule 8 1/2 Dia. of Crank pin 8 1/2 Size of Crank webs 15 1/2 x 5 1/2 Dia. of thrust shaft under collars 8 1/2 Dia. of screw 10-9 Pitch of Screw 11-15 No. of Blades 4 State whether moveable no Total surface 38 1/2  
No. of Feed pumps Two Diameter of ditto 2 1/2 Stroke 15 Can one be overhauled while the other is at work yes  
No. of Bilge pumps Two Diameter of ditto 2 1/2 Stroke 15 Can one be overhauled while the other is at work yes  
No. of Donkey Engines Two Sizes of Pumps 6 x 1 1/2 x 6 7 x 6 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room Four @ 2 1/2 In Holds, &c. Two @ 2 1/2

No. of Bilge Injections one sizes 4 Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes 2 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  
What pipes are carried through the bunkers Bilge & Ballast suction How are they protected from damage  
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 worked from yes

BOILERS, &c.—(Letter for record S.) Manufacturers of Steel J. Spencer & Sons  
Total Heating Surface of Boilers 1950 Is Forced Draft fitted no No. and Description of Boilers Two cyl mult S.E.  
Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 9-3-21 No. of Certificate 3476  
Can each boiler be worked separately yes Area of fire grate in each boiler 32 No. and Description of Safety Valves to each boiler 2 spring loaded Area of each valve 3.98 Pressure to which they are adjusted 185 Are they fitted with easing gear yes  
Smallest distance between boilers or uptakes and bunkers or woodwork out Mean dia. of boilers 11-0 Length 10-0 Material of shell plates steel  
Thickness 5/16 Range of tensile strength 28 to 32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DRL  
long. seams TR, DRS Diameter of rivet holes in long. seams 1 Pitch of rivets 7 Lap of plates or width of butt straps 15  
Per centages of strength of longitudinal joint rivets 88 1/2 plate 85 Working pressure of shell by rules 204 Size of manhole in shell 16 x 12  
Size of compensating ring 16 x 7 No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 3-4  
Length of plain part top 36-6 thickness of plates crown 3/8 Description of longitudinal joint welded No. of strengthening rings 4  
Working pressure of furnace by the rules 183 Combustion chamber plates: Material steel Thickness: Sides 1/8 Back 1/8 Top 5/8 Bottom 1/8  
Pitch of stays to ditto: Sides 9 1/4 x 9 Back 9 x 9 1/8 Top 7 1/2 x 9 If stays are fitted with nuts or riveted heads yes Working pressure by rules 183  
Material of stays steel Area at smallest part 2-07 Area supported by each stay 89 Working pressure by rules 208 End plates in steam space: Material steel Thickness 3/8 Pitch of stays 15 x 14 How are stays secured DR & W Working pressure by rules 186 Material of stays steel  
Area at smallest part 3-85 Area supported by each stay 210 Working pressure by rules 190 Material of Front plates at bottom steel  
Thickness 3/8 Material of Lower back plate steel Thickness 3/8 Greatest pitch of stays 14 x 9 1/8 Working pressure of plate by rules 193  
Diameter of tubes 3 1/2 Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates steel Thickness: Front 3/8 Back 5/8 Mean pitch of stays 10-5  
Pitch across wide water spaces 14 x 11 Working pressures by rules 258 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 7 1/2 x 1 1/2 Length as per rule 2-5 1/2 Distance apart 7 1/2 Number and pitch of stays in each 2 @ 9  
Working pressure by rules 198 Steam dome: description of joint to shell yes % of strength of joint yes  
Diameter yes Thickness of shell plates yes Material yes Description of longitudinal joint yes Diam. of rivet holes yes  
Pitch of rivets yes Working pressure of shell by rules yes Crown plates yes Thickness yes How stayed yes  
SUPERHEATER. Type yes Date of Approval of Plan yes Tested by Hydraulic Pressure to yes  
Date of Test yes Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler yes  
Diameter of Safety Valve yes Pressure to which each is adjusted yes Is Easing Gear fitted yes

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—Two top end, two bottom end, two main bearing & one set of coupling bolts & nuts, One set air, feed, & bilge pump valves, one main & one donkey check valve, a quantity of assorted bolts & nuts & iron of various sizes.

The foregoing is a correct description,

For CHARLES D. HOLMES & CO. LTD.

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1920 Oct 26 Nov 18 Dec 2 10 14 16 20 31 1921 Jan 3 6 10 14 20 21 24 26 31 Feb 2 10  
During erection on board vessel - - 11 14 16 17 18 22 24 then 1 2 8 9 14 16 21 23 30 Apr 1 12 14 19 20 26 27 28 May 2  
Total No. of visits 53. Is the approved plan of main boiler forwarded herewith Yes

Dates of Examination of principal parts—Cylinders 10-1-21 Slides 12-2-21 Covers 21-1-21 Pistons 10-2-21 Rods 10-1-21

Connecting rods 21-1-21 Crank shaft 10-1-21 Thrust shaft 21-1-21 Tunnel shafts 21-1-21 Screw shaft 21-1-21 Propeller 9-11-20

Stern tube 9-11-20 Steam pipes tested 5-16-4-21 Engine and boiler seatings 19-4-21 Engines holding down bolts 19-4-21

Completion of pumping arrangements 9-8-21 Boilers fixed 19-4-21 Engines tried under steam 9-8-21

Completion of fitting sea connections 6-12-20 Stern tube 9-11-20 Screw shaft and propeller 14-3-21

Main boiler safety valves adjusted 9-8-21 Thickness of adjusting washers Pt boiler  $\frac{3}{16}$  S. boiler  $\frac{3}{16}$

Material of Crank shaft Steel Identification Mark on Do. Lloyd's 25-34 10-1-21 Material of Thrust shaft steel Identification Mark on Do. Lloyd's 25-34 21-1-21

Material of Tunnel shafts - Identification Marks on Do. - Material of Screw shafts steel Identification Marks on Do. Lloyd's 25-34 9-11-20

Material of Steam Pipes Copper Test pressure 400 lbs

Is an installation fitted for burning oil fuel No 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 engines & boilers of this vessel have been built under special survey & the materials & workmanship are good.

On completion the machinery was tried under full working conditions while moored to the Quay Wall with satisfactory results.

The machinery of this vessel is now in a good & efficient condition & eligible in my opinion to have the record LMC-8-21 marked in Red in the Society's Register Book.

It is submitted that this vessel is eligible for THE RECORD. + LMC-8-21 CL.

Recd 29/8/21 JLM

The amount of Entry Fee ... £ 3 : 0 : 0 When applied for, 19/21  
Special ... £ 27 : 10 : 0  
Donkey Boiler Fee ... £ : : : When received, 31/8/1921  
Travelling Expenses (if any) £ : : : J.E.D.

Committee's Minute FRI. 25 SEP. 1921

Assigned + LMC-8-21 C.L.

Charlotte H. P. Riley  
Engineer Surveyor to Lloyd's Register of Shipping.

MACHINERY CERT.  
WRITTEN



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Foundation