

REPORT ON MACHINERY.

No. 26839

Date of writing Report 7th Nov 1916 When handed in at Local Office 8th Nov 1916 Port of Hull
 No. in Survey held at Hull Date, First Survey 23 June 1915 Last Survey 2 Nov 1916
 Reg. Book. 1603 on the Machinery of the S.S. Homme (Number of Visits 58)
 Master E. Sparshott Built at Hull By whom built J. P. Austin & Son Ltd. Tons Gross 1828
 Engines made at Hull By whom made North Eastern Marine Eng. Co. Ltd. When built 1916
 Boilers made at " By whom made " when made 1916
 Registered Horse Power " Owners Normandy Shipping Co. Ltd. Port belonging to London
 Nom. Horse Power as per Section 28 201 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines

No. of Cylinders 3No. of Cranks 3

Dia. of Cylinders 20 1/2", 33", 54" Length of Stroke 39" Revs. per minute 14 Dia. of Screw shaft 11 1/2" Material of Steel
 as per rule 10 3/4" as fitted 11 1/2" screw shaft

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'-11 1/2"

Dia. of Tunnel shaft 10 3/4" as per rule 10 3/4" Dia. of Crank shaft journals 10 3/4" as per rule 10 3/4" Dia. of Crank pin 10 3/4" Size of Crank webs 15 1/2" x 6 1/4" Dia. of thrust shaft under

collars 10 3/4" Dia. of screw 14'-6" Pitch of Screw 15'-3" No. of Blades 4 State whether moveable No Total surface 65 sq ft

No. of Feed pumps 2 Diameter of ditto 3" 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 21" Can one be overhauled while the other is at work Yes

No. of Donkey Engines 2 Sizes of Pumps 9" x 11" x 10" & 5 1/2" x 3 1/2" x 5" No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 2 of 3" In Holds, &c. 2 of 3" in fore hold &

No. of Bilge Injections 1 sizes 4" Connected to condenser, or to circulating pump pumps a separate Donkey Suction fitted in Engine room & size 3"

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 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 none 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

Dates of examination of completion of fitting of Sea Connections 11/8/16 of Stern Tube 10/8/16 Screw shaft and Propeller 10/8/16

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Yes

BOILERS, &c.—(Letter for record 8)Manufacturers of Steel J. P. Austin & Son

Total Heating Surface of Boilers 3134 Is Forced Draft fitted No No. and Description of Boilers 2 Single-ended

Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 28/6/16 No. of Certificate 3342

Can each boiler be worked separately Yes Area of fire grate in each boiler 43 sq ft No. and Description of Safety Valves to

each boiler 2 direct spring Area of each valve 4.9 Pressure to which they are adjusted 185 lbs Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 19" Mean dia. of boilers 13'-1 1/2" Length 10'-6" Material of shell plates Steel

Thickness 6 3/4" Range of tensile strength 29 7/8-33 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams cl. r. c.

long. seams Z. r. d. c. Diameter of rivet holes in long. seams 1 7/32" Pitch of rivets 9 3/4" Lap of plates or width of butt straps 19"

Per centages of strength of longitudinal joint 89.9 Working pressure of shell by rules 180 lbs Size of manhole in shell 16" x 12"

Size of compensating ring flanges No. and Description of Furnaces in each boiler 3 plain Material Steel Outside diameter 35 3/4"

Length of plain part 4'-4 1/2" Thickness of plates 1 1/2" Description of longitudinal joint welded No. of strengthening rings Yes

Working pressure of furnace by the rules 180 lbs Combustion chamber plates: Material Steel Thickness: Sides 3/4" Back 1 1/8" Top 3/4" Bottom 3/4"

Pitch of stays to ditto: Sides 12" x 8 3/8" Back 11 1/4" x 10 7/8" Top 12" x 8 3/8" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 181.5 lbs

Material of stays Steel Diameter at smallest part 2.43 Area supported by each stay 121.3 Working pressure by rules 180 lbs End plates in steam space:

Material Steel Thickness 1 1/4" Pitch of stays 22" x 8 3/8" How are stays secured d. n. g. w. Working pressure by rules 180 lbs Material of stays Steel

Diameter at smallest part 7.06 Area supported by each stay 404 Working pressure by rules 181.5 lbs Material of Front plates at bottom Steel

Thickness 3/4" Material of Lower back plate Steel Thickness 2 3/8" Greatest pitch of stays 14 3/8" x 10 3/8" Working pressure of plate by rules 180.6 lbs

Diameter of tubes 3 1/4" Pitch of tubes 4 3/4" x 4 5/8" Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays 10.6"

Pitch across wide water spaces 14 1/2" Working pressures by rules 192.7 lbs Girders to Chamber tops: Material Steel Depth and

thickness of girder at centre 8 3/8" x 1 1/2" Length as per rule 30 1/2" Distance apart 12' 4" 9" Number and pitch of stays in each 2 of 8 3/8"

Working pressure by rules 184 lbs Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked

separately Yes Diameter Yes Length 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 Diameter of flue Yes Material of flue plates Yes Thickness Yes

If stiffened with rings Yes Distance between rings Yes Working pressure by rules Yes End plates: Thickness Yes How stayed Yes

Working pressure of end plates Yes Area of safety valves to superheater Yes Are they fitted with easing gear Yes

IS A DONKEY BOILER FITTED?

No.

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

2 top end & 2 bottom end bolts, 2 main bearing bolts
1 set of coupling bolts, 1 set of feed & bilge pump valves
1 set of piston rings for each cylinder, a quantity of
assorted bolts nuts & iron, 1 set of bottom end bearings
& minor details.

The foregoing is a correct description,
FOR THE NORTH EASTERN MARINE ENGINEERING CO. LD

Geo. D. Ince

Manufacturer.

Manager.

Dates of Survey while building
During progress of work in shops -- 1915 Jun. 29. Jul. 6. Nov. 30. Dec. 8. 17. 24. Jan. 17. Feb. 3. 17. 25. Mar. 9. 20. Apr. 18. 26. 28.
During erection on board vessel -- May 2. 4. 8. 12. 18. 19. Jun. 2. 7. 9. 12. 13. 15. 16. 28. 30. Jul. 1. 4. 6. 10. 11. 13. 21. 26. Aug. 1. 4. 7. 8. 10. 18. 21.
Total No. of visits 55

Is the approved plan of main boiler forwarded herewith

Yes.

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 4/8/16 Slides 10/6/16 Covers 8/8/16 Pistons 21/7/16 Rods 29/8/16
Connecting rods 29/8/16 Crank shaft 26/7/16 Thrust shaft 16/6/16 Tunnel shafts ✓ Screw shaft 4/7/16 Propeller 1/8/16
Stern tube 13/7/16 Steam pipes tested 11/10/16 Engine and boiler seatings 11/8/16 Engines holding down bolts 20/9/16
Completion of pumping arrangements 30/10/16 Boilers fixed 20/9/16 Engines tried under steam 19/10/16
Main boiler safety valves adjusted 19/10/16 Thickness of adjusting washers S.F. 4 1/2 A. 1/2 P.F. 3/8 A. 3/8

Material of Crank shaft Steel Identification Mark on Do. 99 ON W.C. Material of Thrust shaft Steel Identification Mark on Do. 30/6/16 L.C.

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Steel Identification Marks on Do. 11/7/16 L.C.

Material of Steam Pipes Solid drawn copper Test pressure 360 lbs.

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 No If so, state name of vessel ✓

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

The machinery of this vessel has been built under special survey, the materials used are good, and the workmanship is satisfactory, it has been properly fitted on board and secured, and the engines have been tried under full power.

In my opinion this vessel is eligible for the record of L.M.C. 11, 16.

It is submitted that
this vessel is eligible for
THE RECORD.

+ L.M.C. 11, 16.

T.J.S.

10. 11. 16

GRS

The amount of Entry Fee ... £ 2 : :
Special ... £ 30 : 1 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for. - 9. NOV 1916
When received. 27. 11. 1916

Committee's Minute TUE. 14 NOV. 1916

Assigned

+ L.M.C. 11, 16.

Charles Cooper

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Foundation