

REPORT ON MACHINERY

No. 70199

Received at London Office
MON. SEP. 10 1917.

Date of writing Report 4th Sept. 1917 When handed in at Local Office 4.9.17 Port of Newcastle-on-Tyne
 No. in Survey held at Newcastle Date, First Survey 12th May 1915 Last Survey 28th Aug 1917
 Reg. Book. on the "Beaumont" (Number of Visits 40) Tons { Gross 2372
 Net 1460

Master James Built at Newcastle By whom built J. S. Cunningham & Co When built 1917
 Engines made at Newcastle By whom made J. S. Cunningham & Co when made 1917
 Boilers made at do By whom made Palmer & Co when made 1917

Registered Horse Power 232 Owners Furnace Withy & Co Ltd Port belonging to London
 Nom. Horse Power as per Section 28 232 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 21" - 34 1/2" - 57" Length of Stroke 39" Revs. per minute 75 Dia. of Screw shaft 11 1/8" Material of Iron
 as per rule 11 1/8" as fitted 12" 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 4'-0"
 Dia. of Tunnel shaft 10 5/8" as per rule 10 5/8" Dia. of Crank shaft journals 11 1/4" as per rule 11 1/4" Dia. of Crank pin 11 1/4" Size of Crank webs 15"x7" Dia. of thrust shaft under
 collars 11 1/4" Dia. of screw 14'-6" Pitch of Screw 15'-6" No. of Blades 4 State whether moveable No Total surface 66.56

No. of Feed pumps 2 Diameter of ditto 3 1/2" Stroke 19 1/2" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 2 Diameter of ditto 3 3/4" Stroke 19 1/2" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 2 Sizes of Pumps 10"x10"x10" & 6"x4"x6" No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Four 3" In Holds, &c. Two in each hold 3" one in

Lunnet Well 2 1/2"
 No. of Bilge Injections 1 sizes 4" Connected to condensers, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 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 Forward hold suction 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

Dates of examination of completion of fitting of Sea Connections 3-3-17 of Stern Tube 3-3-17 Screw shaft and Propeller 3-3-17
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top platform

BOILERS, &c.—(Letter for record) Manufacturers of Steel
 Total Heating Surface of Boilers 10,000 Is Forced Draft fitted Yes No. and Description of Boilers 2
 Working Pressure 150 Tested by hydraulic pressure to 225 Date of test 1917 No. of Certificate 1

Can each boiler be worked separately Yes Area of fire grate in each boiler 100 No. and Description of Safety Valves to
 each boiler 2 Area of each valve 10 Pressure to which they are adjusted 150 Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 36" Length 12' Material of shell plates Steel

Thickness 3/8" Range of tensile strength 45,000 Are the shell plates welded or flanged Yes Descrip. of riveting: cir. seams Yes
 long. seams Yes Diameter of rivet holes in long. seams 1/4" Pitch of rivets 4" Lap of plates or width of butt straps 1"
 Per centages of strength of longitudinal joint 85 Working pressure of shell by rules 150 Size of manhole in shell 18"

Size of compensating ring 18" No. and Description of Furnaces in each boiler 2 Material Steel Outside diameter 36"
 Length of plain part 12' Thickness of plates 3/8" Description of longitudinal joint Butt No. of strengthening rings 2
 Working pressure of furnace by the rules 150 Combustion chamber plates: Material Steel Thickness: Sides 3/8" Back 3/8" Top 3/8" Bottom 3/8"

Pitch of stays to ditto: Sides 12" Back 12" Top 12" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 150 End plates in steam space:
 Material of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 100 Working pressure by rules 150 Material of stays Steel

Material Steel Thickness 3/8" Pitch of stays 12" How are stays secured By nuts Working pressure by rules 150 Material of Front plates at bottom Steel
 Diameter at smallest part 1 1/2" Area supported by each stay 100 Working pressure by rules 150 Material of Front plates at bottom Steel
 Thickness 3/8" Material of Lower back plate Steel Thickness 3/8" Greatest pitch of stays 12" Working pressure of plate by rules 150

Diameter of tubes 2 1/2" Pitch of tubes 12" Material of tube plates Steel Thickness: Front 3/8" Back 3/8" Mean pitch of stays 12"
 Pitch across wide water spaces 12" Working pressures by rules 150 Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 12" Length as per rule 12' Distance apart 12' Number and pitch of stays in each 2

Working pressure by rules 150 Superheater or Steam chest; how connected to boiler By pipe Can the superheater be shut off and the boiler worked
 separately Yes Diameter 12" Length 12' Thickness of shell plates 3/8" Material Steel Description of longitudinal joint Butt Diam. of rivet
 holes 1/4" Pitch of rivets 4" Working pressure of shell by rules 150 Diameter of flue 12" Material of flue plates Steel Thickness 3/8"

If stiffened with rings Yes Distance between rings 12" Working pressure by rules 150 End plates: Thickness 3/8" How stayed By stays
 Working pressure of end plates 150 Area of safety valves to superheater 100 Are they fitted with easing gear Yes

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IS A DONKEY BOILER FITTED? *Yes*

If so, is a report now forwarded? *Yes*

SPARE GEAR. State the articles supplied: - *Two top end, two bottom end & two main bearing bolts & nuts, one set of coupling bolts, a set of fresh and bilge pump valves, a quantity of assorted bolts nuts & iron a screw shaft and a propeller.*

The foregoing is a correct description,
For Jos. T. ELTRINGHAM & Co. Ltd.

J. Donovan

MANAGER

Manufacturer.

ENGINEERING DEPT.

Dates of Survey while building

During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

1915
May 12. 18 June 15. 21. 23. Feb 15. Mar. 1. 8. 17. 23. Apr. 6 May 10. 15 June 24. Oct. 25. Nov. 2.
Dec 11 1917 Jan 3. 26. Feb 14. 20. Mar 3. 12. Apr 18 May 7. 9. 15. 21. 25. June 4. 8. 9. 12. 13
Aug. 8. 16. 17. 22. 27. 28

40

Is the approved plan of main boiler forwarded herewith *Yes*

" " " donkey " " " *Yes*

Dates of Examination of principal parts - Cylinders 13. 7. 17 Slides 7. 5. 17 Covers 3. 3. 17 Pistons 14. 2. 17 Rods 18. 4. 17

Connecting rods 18. 4. 17 Crank shaft 8. 8. 16 Thrust shaft 4. 6. 17 Tunnel shafts 9. 5. 17 Screw shaft 26. 1. 17 Propeller 26. 1. 17

Stern tube 26. 1. 17 Steam pipes tested 21. 8. 17 Engine and boiler seatings 14. 2. 17 Engines holding down bolts 8. 8. 17

Completion of pumping arrangements 27. 8. 17 Boilers fixed 27. 8. 17 Engines tried under steam 27. 8. 17

Main boiler safety valves adjusted 27. 8. 17 Thickness of adjusting washers P.B. P $\frac{5}{16}$ S $\frac{1}{32}$ S.B. P $\frac{1}{32}$ S $\frac{1}{32}$ J.B. P $\frac{5}{16}$ S

Material of Crank shaft *Steel* Identification Mark on Do. *455 NWC* Material of Thrust shaft *Iron* Identification Mark on Do. *J. X. 6*

Material of Tunnel shafts *Iron* Identification Marks on Do. *J. X. 5. 17* Material of Screw shafts *Iron* Identification Marks on Do. *4384 f. d.*

Material of Steam Pipes *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 engines and boilers of this vessel have been constructed under special survey & the material and workmanship are found to be good. The engines have been tried under steam and the safety valves of the main and donkey boilers adjusted. The machinery is now in good and safe working condition & eligible in my opinion to have the notation of + LMC 8.17.*

A report on the electric installation will be forwarded when received from the Builders

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 8.17.

JWD

JMM

11/9/17

Thomas Field

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

The amount of Entry Fee ... £2 0 0

Special ... £31 12 0

Donkey Boiler Fee ... £10 16 8

Travelling Expenses (if any) £ ...

When applied for.

8- SEP 1917

When received.

22. 15. 4. 19

hd. 22/9/17. 24/9/17

Committee's Minute

Assigned

+ LMC 8.17

MACHINERY CERTIFICATE
WRITTEN.



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Foundation