

REPORT ON MACHINERY.

No. 26621

Date of writing Report 9th Aug. 1913. When handed in at Local Office 15/8/13. Port of Hull.
 No. in Survey held at Hull. Date, First Survey April 25th Last Survey July 30th 1913.
 Reg. Book. 1814. on the steel S. K. "Stanley Weyman". (Number of Visits 16)
 Master Silley Built at Silley By whom built Cochrane & Co. Ltd Tons Gross 290.
 Engines made at Hull. By whom made C. H. Holmes & Co. Ltd When built 1913.
 Boilers made at Hull. By whom made C. H. Holmes & Co. Ltd when made 1913.
 Registered Horse Power 78 Owners Hurwinton Ste. Trading Co. Port belonging to Hull.
 Nom. Horse Power as per Section 28 78 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted no.

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3.
 Dia. of Cylinders 12 3/4" 22" 36" Length of Stroke 24" Revs. per minute 112. Dia. of Screw shaft 7 1/2" Material of S.
 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 ✓. 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 ✓. If two liners are fitted, is the shaft lapped or protected between the liners ✓. Length of stern bush ✓.
 Dia. of Tunnel shaft 7 1/2" Dia. of Crank shaft journals 7 1/2" Dia. of Crank pin 7 1/2" Size of Crank webs 48" x 14 1/4" Dia. of thrust shaft under collars 7 1/2" Dia. of screw 9 1/4" Pitch of Screw 11 1/2" No. of Blades 4. State whether moveable no. Total surface 30 1/2".
 No. of Feed pumps 1. Diameter of ditto 2 1/2" Stroke 14 1/4" Can one be overhauled while the other is at work ✓.
 No. of Bilge pumps 1. Diameter of ditto 2 1/2" Stroke 14 1/4" Can one be overhauled while the other is at work ✓.
 No. of Donkey Engines 1. Sizes of Pumps 6" x 4 1/2" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room Two - 2" and 3" ejector. In Holds, &c. One 2" to after slush well, One 2" to fore-slush well, One 2" to main hold, One 2" to spare bunker, One 2" to fore-catch.
 No. of Bilge Injections 1. sizes 3 1/2" Connected to condenser, 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 no.
 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 about.
 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 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 15.5.13. of Stern Tube 15.5.13. Screw shaft and Propeller 15.5.13.
 Is the Screw Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓.

BOILERS, &c.—(Letter for record S). Manufacturers of Steel Messrs. Phoenix Abt. Horder Verein of Hörde
 Total Heating Surface of Boilers 1280 Is Forced Draft fitted no No. and Description of Boilers Two light-tubed Multitubular
 Working Pressure 200 lbs. Tested by hydraulic pressure to 400 lbs. Date of test 30.6.13 No. of Certificate 1994.
 Can each boiler be worked separately ✓ Area of fire grate in each boiler 45 1/2" No. and Description of Safety Valves to each boiler Two spring loaded Area of each valve 4 9" Pressure to which they are adjusted 205 lbs. Are they fitted with easing gear yes.
 Smallest distance between boilers or uptakes and bunkers or woodwork 7" Mean dia. of boilers 13 1/2" Length 10 1/2" Material of shell plates S.
 Thickness 1 1/2" Range of tensile strength 24 tons. Are the shell plates welded or flanged ✓ Descrip. of riveting: cir. seams B.R.T. long. seams T.R. & B. Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 8" Lap of plates or width of butt straps 18".
 Per centages of strength of longitudinal joint 85. Working pressure of shell by rules 202. Size of manhole in shell 16" x 12".
 Size of compensating ring 7 1/2" x 1 1/2" No. and Description of Furnaces in each boiler 3 plain Material S. Outside diameter 38".
 Length of plain part 5 1/2" Thickness of plates 1 1/2" Description of longitudinal joint Welded. No. of strengthening rings ✓.
 Working pressure of furnace by the rules 215. Combustion chamber plates: Material S. Thickness: Sides 1 1/2" Back 23" Top 1 1/2" Bottom 23".
 Pitch of stays to ditto: Sides 9 1/2" x 8 1/2" Back 9 1/2" x 8 1/2" Top 9 1/2" x 8 1/2" If stays are fitted with nuts or riveted heads no. Working pressure by rules 210.
 Material of stays S. Diameter at smallest part 2 07" Area supported by each stay 7 1/2" Working pressure by rules 243. End plates in steam space: Material S. Thickness 1 1/2" Pitch of stays 20" x 18" How are stays secured by nuts Working pressure by rules 204. Material of stays S.
 Diameter at smallest part 8 7/8" Area supported by each stay 380 1/2" Working pressure by rules 288. Material of Front plates at bottom S.
 Thickness 1 1/2" Material of Lower back plate S. Thickness 1 1/2" Greatest pitch of stays 13 1/2" x 9 1/2" Working pressure of plate by rules 230.
 Diameter of tubes 3 1/2" Pitch of tubes 5 x 5 1/2" Material of tube plates S. Thickness: Front 1 1/2" Back 7/8" Mean pitch of stays 11" x 10".
 Pitch across wide water spaces 14" Working pressures by rules 208" Girders to Chamber tops: Material S. Depth and thickness of girder at centre 10 1/4" x 1 1/4" Length as per rule 36 Distance apart 9" Number and pitch of stays in each 5 1/2" x 8 1/4".
 Working pressure by rules 206. Superheater or Steam chest; how connected to boiler ✓ Can the superheater be shut off and the boiler worked separately ✓. Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓.
 If stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓.
 Working pressure of end plates ✓ Area of safety valves to superheater ✓ Are they fitted with easing gear ✓.

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure _____ tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of Safety _____

Valves _____ No. of Safety Valves _____ Area of each _____ Pressure to which they are adjusted _____ Date of adjustment _____

If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____

Material of shell plates _____ Thickness _____ Range of tensile strength _____ Descrip. of riveting long. seams _____

Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Plates _____

Working pressure of shell by rules _____ Thickness of shell crown plates _____ Radius of do. _____ No. of stays to do. _____ Dia. of stays _____

Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description of joint _____

Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Radius of do. _____ Stayed by _____

Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— *Two each top & bottom end connecting rod bolts nuts, two main bearing bolts nuts, one set of coupling bolts nuts, one set each feed & bilge pump valves, iron of various sizes, a quantity of assorted bolts nuts etc.*

The foregoing is a correct description,

CHARLES D. HOLMES & CO. LTD.

Manufacturer.

Arthur Holmes

DIRECTOR

1913— Apr. 25. May. 15. 19. 29. Jun. 9. 10. 19. 27. 30. Jul. 8. 9. 14. 16. 22. 24. 30.

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

16

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

Dates of Examination of principal parts—Cylinders *27.6.13* Slides *14.7.13* Covers *14.7.13* Pistons *14.7.13* Rods *14.7.13*
Connecting rods *14.7.13* Crank shaft *8.7.13* Thrust shaft *9.7.13* Tunnel shafts *✓* Screw shaft *15.5.13* Propeller *15.5.13*
Stern tube *15.5.13* Steam pipes tested *22.7.13* Engine and boiler seatings *15.5.13* Engines holding down bolts *22.7.13*
Completion of pumping arrangements *22.7.13* Boilers fixed *22.7.13* Engines tried under steam *24.7.13*
Main boiler safety valves adjusted *24.7.13* Thickness of adjusting washers *AV 1/6" AV 13/32"*
Material of Crank shaft *S.* Identification Mark on Do. *1077* Material of Thrust shaft *S.* Identification Mark on Do. *1077*
Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *S.* Identification Marks on Do. *1077*
Material of Steam Pipes *Copper solid drawn* Test pressure *400lbs. hyd. press.*

General Remarks (State quality of workmanship, opinions as to class, &c. *The engines & boiler of this vessel have been constructed under special survey in accordance with the Rules. The material & workmanship are sound and good. The boiler tested by hydraulic pressure and with the engines secured on board & tested under steam they are now in good order, & safe working condition. I respectfully submitted as being eligible in my opinion to be classed with the notation of +LMC 8.13. in the Register Book.*

It is submitted that this vessel is eligible for THE RECORD. +LMC 7.13

J. S. Mackie
16.8.13

The amount of Entry Fee .. £ 1 : : When applied for, _____
Special .. £ 11 : 14 : 10/5-8-13
Donkey Boiler Fee .. £ : : When received, _____
Travelling Expenses (if any) £ : 2 : 9 : 29-8-13
Committee's Minute TUE. AUG. 19. 1913

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

Assigned

+LMC 7.13

MACHINERY CERTIFICATE WRITTEN



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