

Received at London Office

Date of writing Report 26 Dec 1919 When handed in at Local Office 2 Jan 1920 Port of Greenwich
No. in Survey held at Greenwich Date, First Survey 12th June 1918. Last Survey 31 Dec 1919
Reg. Book. on the Steel steamer Dundrum Castle (Number of Visits 111.)
Master H. P. Barden-Smith Built at Greenwich By whom built Harland & Wolff Tons { Gross 5258.74.
Engines made at Greenwich By whom made John S. Kincaid & Co. Ltd. when made 1919
Boilers made at Greenwich By whom made John S. Kincaid & Co. Ltd. when made 1919
Registered Horse Power Owners Immin Castle Line Port belonging to London
Nom. Horse Power as per Section 28 517 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triples Compound No. of Cylinders Three No. of Cranks Three
Dia. of Cylinders 27-44-73 Length of Stroke 48 Revs. per minute 77 Dia. of Screw shaft as per rule 14.68 Material of Steel
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 60 1/2
Dia. of Tunnel shaft as per rule 13.33 Dia. of Crank shaft journals as per rule 13.99 Dia. of Crank pin 1 1/2 Size of Crank webs 28.9 Dia. of thrust shaft under
collars 14 3/4 Dia. of screw 17.6 Pitch of Screw 16.6 No. of Blades 4 State whether moveable No Total surface 98.24
No. of Feed pumps Two Diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work Yes
No. of Bilge pumps Two Diameter of ditto 4 Stroke 24 Can one be overhauled while the other is at work Yes
No. of Donkey Engines Two Sizes of Pumps 7-18-14-24 No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room Two 3 1/2 In Holds, &c. One 3 1/2 Summit 3 1/2
Circulating Pump Separate Engine
No. of Bilge Injections Two sizes 12 Connected to condenser, or to circulating pump Summit Is a separate Donkey Suction fitted in Engine room & size Two 3 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 Both
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 Yes 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
Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top of Main

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Charles Roe
Total Heating Surface of Boilers 7668 1/2 Is Forced Draft fitted Yes No. and Description of Boilers Three single ended
Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 10 April 19 No. of Certificate 1380
Can each boiler be worked separately Yes Area of fire grate in each boiler 63.34 No. and Description of Safety Valves to
each boiler Two Area of each valve 9.62 Pressure to which they are adjusted 185 lb Are they fitted with easing gear Yes
Smallest distance between boilers or uptakes and bunkers or woodwork 24 Mean dia. of boilers 15.6 Length 11.6 Material of shell plates Steel
Thickness 1 1/4 Range of tensile strength 28-32 Are the shell plates welded or flanged Yes Descrip. of riveting: End seams all welded
long. seams all shop Diameter of rivet holes in long. seams 19/16 Pitch of rivets 9/16 Lap of plates or width of butt straps 19 1/2
Per centages of strength of longitudinal joint 88.3 Working pressure of shell by rules 182 lb Size of manhole in End 16.12
Size of compensating ring Flanged No. and Description of Furnaces in each boiler 3 straight Material Steel Outside diameter 50 1/4
Length of plain part top Thickness of plates crown Description of longitudinal joint included No. of strengthening rings Curry
Working pressure of furnace by the rules 182 lb Combustion chamber plates: Material Steel Thickness: Sides 23/32 Back 11/16 Top 23/32 Bottom 23/32
Pitch of stays to ditto: Sides 10 1/2 Back 10 1/2 Top 10 1/2 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 180 lb
Material of stays Steel Area at smallest part 2.43 Area supported by each stay 98.3 Working pressure by rules 222 lb End plates in steam space:
Material Steel Thickness 1 1/2 Pitch of stays 2 1/4 How are stays secured all nut Working pressure by rules 181 lb Material of stays Steel
Area at smallest part 8.29 Area supported by each stay 4.73 Working pressure by rules 182 lb Material of Front plates at bottom Steel
Thickness 1 1/2 Material of Lower back plate Steel Thickness 2 1/2 Greatest pitch of stays 13 1/2 Working pressure of plate by rules 181 lb
Diameter of tubes 2 1/4 Pitch of tubes 4 1/2 Material of tube plates Steel Thickness: Front 5/16 Back 17/16 Mean pitch of stays 9.8
Pitch across wide water spaces 13 1/2 Working pressures by rules 181 lb Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 10-14 1/2 Length as per rule 55.52 Distance apart 49 1/2 Number and pitch of stays in each 3-9
Working pressure by rules 187 Steam dome: description of joint to shell Yes % 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 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?

If so, is a report now forwarded? —

SPARE GEAR. State the articles supplied:— The top end bolts. The bottom end bolts. The main bearing bolts. One set coupling bolts. One set end pump valves. One set safety pump valves. Two sets of shaft valves. All the nuts. ✓

The foregoing is a correct description,

FOR JOHN G. KINCAID & COY., LIMITED.

J. G. Kincaid

Manufacturer.

Arthur Street Engine Works.

Dates of Survey while building { During progress of work in shops - - - { 1918 June 12. 18. 20. July 23. Aug. 19. 23. Sept. 11. 12. 16. 24. Oct. 1. 2. 7. 22. 24. 28. Nov. 6. 15. 20. 22. Dec. 2. 5. 9. 16. 18. 20. 21. 28. 30. 1919 Jan. 9. 14. 16. 21. 30. Feb. 4. 6. 7. 10. 12. 17. 19. 21. 25. 26. 27. Mar. 4. 6. 10. 12. 17. 19. 21. 25. 27. 30. Apr. 2. 7. 9. 11. 16. 21. 28. 30. May 5. 8. 13. 15. 21. 23. 26. June 3. 5. 10. 12. 16. 18. July 1. 24. Aug. 1. 4. 5. 7. 11. 15. 19. 25. Sept. 2. 5. 12. 16. 22. 26. Oct. 2. 7. 14. 18. 21. 28. 30. November 3. 11. 18. 26. Dec. 3. 10. 23. 29. 31. Total No. of visits 111. Is the approved plan of main boiler forwarded herewith? *Yes*

Dates of Examination of principal parts—Cylinders 7/8/19 Slides 2/9/19 Covers 7/8/19 Pistons 22/9/19 Rods 12/9/19 Connecting rods 25/8/19 Crank shaft 16/9/19 Thrust shaft 16/9/19 Tunnel shafts 14/10/19 Screw shaft 10-9-19 Propeller 26/9/19 Stern tube 14/10/19 Steam pipes tested *Harmon* Engine and boiler seatings 21/10/19 Engines holding down bolts 14/10/19 Completion of pumping arrangements 23/12/19 Boilers fixed 3/12/19 Engines tried under steam 23/12/19 Completion of fitting sea connections 24/10/19 Stern tube 16/10/19 Screw shaft and propeller 23/10/19 Main boiler safety valves adjusted 23/12/19 - 29/12/19 Thickness of adjusting washers *P 1/2. S 1/2 - P 1/8. S 1/2 - P 1/8. S 1/2* Material of Crank shaft *Steel* Identification Mark on Do. 299 Material of Thrust shaft *Steel* Identification Mark on Do. 299 Material of Tunnel shafts *Steel* Identification Marks on Do. 299 Material of Screw shafts *Steel* Identification Marks on Do. 299 Material of Steam Pipes *Iron* Test pressure *540 lb* Is an installation fitted for burning oil fuel? *Yes* 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 *Biapra Ltd No 17486 24/6/19* General Remarks (State quality of workmanship, opinions as to class, &c.) *Workmanship good.*

The Machinery and Boilers of this Steamer have been examined under Special Survey and placed on board in accordance with the Society's Rules. They are now in my opinion in safe working condition and the case is respectfully submitted for the Certification F. D. and L.M.C. 12. 19 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 12. 19. F.D.

The amount of Entry Fee ... £ 3 : 0 : When applied for, Special ... £ 45 : 17 : 3rd Jan. 1920. Donkey Boiler Fee ... £ 17 : 0 : 5/2/20 Travelling Expenses (if any) £ : : 3/21/20 1920 64/5/20 1920 4

James Jones
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 6-JAN 1920

Assigned + L.M.C. 12. 19. F.D.



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