

REPORT ON MACHINERY.

No. 14641

Received at London Office

22 JAN 1927

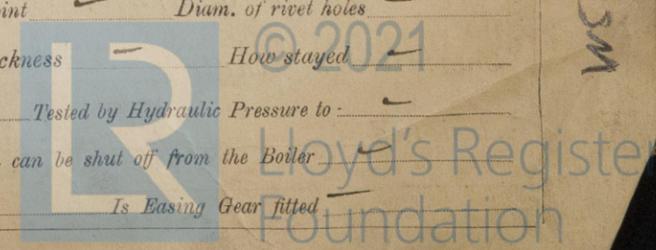
Date of writing Report 19-1-27 When handed in at Local Office 20-1-27 Port of Aberdeen
 No. in Survey held at Aberdeen Date, First Survey 9-2-26 Last Survey 17-1-27
 Reg. Book. (Number of Visits 31)
 on the S.S. "ENNISKILLEN"
 Master Built at Aberdeen By whom built J. Lewis & Sons Ltd. (No 97) When built 1927
 Engines made at Aberdeen By whom made J. Lewis & Sons Ltd. (No 181) when made 1927
 Boilers made at Aberdeen By whom made J. Lewis & Sons Ltd. (No 146) when made 1927
 Registered Horse Power Owners John Kelly Ltd. Port belonging to Belfast.
 Nom. Horse Power as per Section 28 63 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 10 1/2 x 18 x 30 Length of Stroke 21 Revs. per minute as per rule 624 Material of screw shaft Iron
 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
 the propeller boss yes If the liner is in more than one length are the joints burned no 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 no If two
 liners are fitted, is the shaft lapped or protected between the liners no Length of stern bush 28
 Dia. of Tunnel shaft as per rule 5.575 Dia. of Crank shaft journals as per rule 5.85 Dia. of Crank pin 6 Size of Crank webs 8 1/2 x 4 Dia. of thrust shaft under
 rollers 6 Dia. of screw 8-0 Pitch of Screw 10-6 No. of Blades 4 State whether moveable no Total surface 25 sq
 No. of Feed pumps one Diameter of ditto 2 1/4 Stroke 10 1/2 Can one be overhauled while the other is at work yes
 No. of Bilge pumps one Diameter of ditto 2 1/4 Stroke 10 1/2 Can one be overhauled while the other is at work yes
 No. of Donkey Engines 2 Sizes of Pumps 5 x 3 1/2 x 6; 6 x 6 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room One @ 2" fwd.; 1 @ 2" aft. In Holds, &c. One @ 2 1/4 port, 10 2 1/4 Starb.

No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump no 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 hold suction How are they protected below ceiling
 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 no worked from no

BOILERS, &c.—(Letter for record S) Manufacturers of Steel W. Beardmore & Co. Ltd.
 Total Heating Surface of Boilers 1180 sq Is Forced Draft fitted no No. and Description of Boilers One S.E. main
 Working Pressure 200 Tested by hydraulic pressure to 350 lb. Date of test 7-12-26 No. of Certificate 1053
 Can each boiler be worked separately yes Area of fire grate in each boiler 34.4 sq No. and Description of Safety Valves to
 each boiler 2 spring loaded Area of each valve 3.97 sq Pressure to which they are adjusted 200 lb Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork alt 4-0 Mean dia. of boilers 11-6 Length 10-0 Material of shell plates S
 Thickness 1 1/16 Range of tensile strength 28/32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DR
 Longitudinal seams TRDBS Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 7 9/16 Lap of plates or width of butt straps 16
 Percentages of strength of longitudinal joint 84.9 Working pressure of shell by rules 200 Size of manhole in shell 15 x 19
 Description of compensating ring to 16 x 12 manhole and Description of Furnaces in each boiler 2 plain Material S Outside diameter 41
 Length of plain part top 73.75 Thickness of plates bottom 32 Description of longitudinal joint welded No. of strengthening rings yes
 Working pressure of furnace by the rules 202.5 Combustion chamber plates: Material S Thickness: Sides 21/32 Back 11/16 Top 21/32 Bottom 21/32
 Distance of stays to ditto: Sides 8 x 9 1/4 Back 7 1/2 x 10 1/2 Top 7 1/2 x 9 1/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 200.5
 Material of stays S Area at smallest part 1 5/8 Area supported by each stay 76.50 Working pressure by rules 205 End plates in steam space:
 Material S Thickness 3 1/2 Pitch of stays 15 5/8 How are stays secured D.N Working pressure by rules 200.5 Material of stays S
 Area at smallest part 2 5/8 Area supported by each stay 20.50 Working pressure by rules 234 Material of Front plates at bottom S
 Thickness 15/16 Material of Lower back plate S Thickness 15/16 Greatest pitch of stays 17 1/2 Working pressure of plate by rules 210
 Diameter of tubes 3 1/2 Pitch of tubes 4 3/4 x 4 3/4 Material of tube plates S Thickness: Front 15/16 Back 13/16 Mean pitch of stays 11
 Distance across wide water spaces 14 1/2 x 9 1/2 Working pressures by rules 201 lb Girders to Chamber tops: Material S Depth and
 Thickness of girder at centre 8 1/4 x 1 1/8 Length as per rule 2-5 Distance apart 7 3/8 Number and pitch of stays in each 2 @ 9 1/4
 Working pressure by rules 201.5 Steam dome: description of joint to shell yes % of strength of joint no
 Material yes Thickness of shell plates yes Material yes Description of longitudinal joint yes Diam. of rivet holes no
 Material 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 no Tested by Hydraulic Pressure to no
 Date of Test no Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler no
 Diameter of Safety Valve no Pressure to which each is adjusted no Is Easing Gear fitted no



IS A DONKEY BOILER FITTED? No

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two top end bolts & nuts, Two bottom end bolts & nuts, 2 main bearing bolts, 1 set of coupling bolts, 1 set of feed & bilge pump valves, a quantity of assorted bolts & nuts, iron of various sizes, propeller, safety valve spring, escape valve springs, main & donkey check valves, 6 cylinder studs & nuts, 6 junk ring studs & nuts, 3 boiler tubes, 3 condenser tubes, 1/2 set of fire bars.

The foregoing is a correct description,
For JOHN LEWIS & SONS, LTD.,

John J. Donnelly

Manufacturer.

Nov. 1. Dec. 7.
1926
During progress of work in shops -- Feb. 9. 24. Mar. 2. 16. Apr. 5. 12. 14. 23. May. 6. 11. 24. June 11. 18. 29. July. 9. 15. 29. Aug. 13. 24. 31. Sept.
1927
During erection on board vessel --- Dec. 7. 13. 14. 16. 29. Jan. 17.
Total No. of visits 31.

Dates of Examination of principal parts—Cylinders 6-5-26 Slides 11-6-26 Covers 6-5-26 Pistons 11-6-26 Rods 11-6-26
Connecting rods 11-6-26 Crank shaft 31-3-26 Thrust shaft 1-11-26 Tunnel shafts ✓ Screw shaft 1-11-26 Propeller 1-11-26
Stern tube 1-11-26. Steam pipes tested 14-12-26. Engine and boiler seatings 7-12-26 Engines holding down bolts 15-1-27
Completion of pumping arrangements 17-1-27 Boilers fixed 13-12-26 Engines tried under steam 17-1-27
Completion of fitting sea connections 7-12-26 Stern tube 7-12-26 Screw shaft and propeller 7-12-26
Main boiler safety valves adjusted 16-12-26 Thickness of adjusting washers P 5/16 S 5/16
Material of Crank shaft Steel Identification Mark on Do. 1053 J.E.S. Material of Thrust shaft Steel Identification Mark on Do. 106
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Iron Identification Marks on Do. 105
Material of Steam Pipes S.D. Copper. 3" dia. 8 S.W.G. Test pressure 400 lbs per sq. in.
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? Yes ✓ If so, state name of vessel "Fermanagh" ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)
The engines & boiler of this vessel have been built under special survey & in accordance with the approved plans & the Rules of this Society. The materials & workmanship are good. The machinery has been properly fitted & secured on board, tried under working conditions & found good. The steam & feed pipes have been tested by hydraulic pressure as required by the Rules. The safety valves have been adjusted under steam & tried for accumulation.
The machinery is eligible in my opinion to have the record in LMC 1.2 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD. + LMC 1.27. CL.

J.W.D.
24/1/27.
For H.C. Foster & Selg.
P. Fitzgerald.
Engineer Surveyor to Lloyd's Register of Shipping

Certificate (if required) to be sent to the Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee	£ 2 : -	When applied for.
Special	£ 15 : 15	19
Donkey Boiler Fee	£ :	When received.
Travelling Expenses (if any)	£ :	5.5.27

Committee's Minute
Assigned

TUES. 25 JAN 1927
+ L.M.C. 1.27.
Ch.

CERTIFICATE WRITTEN.

FRI. 11 MAR 1927



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Foundation