

REPORT ON MACHINERY.

No. 36828

Date of writing Report 4-4-14 When handed in at Local Office 4-4-14 Port of Glasgow
No. in Survey held at Glasgow & Coole Date, First Survey 1st March 1916 Last Survey 24-3-1914
Reg. Book. on the Triple expansion engine for Messrs The Coole Ship Co Ltd (Number of Vessels 1) Gross 285.66
Master Built at Coole By whom built The Coole Ship Co Ltd Net 112.50
Engines made at Coatbridge By whom made Wm Bevanmore & Co Ltd 1st 1st 1914
Boilers made at Hull By whom made G.D. Holmes & Co Ltd 1st 1st 1914
Registered Horse Power Owners Sun Steam Trawling Co Ltd Port belonging to Hull.
Nom. Horse Power as per Section 28 80 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

Engines, &c.—Description of Engines Triple expansion
Dia. of Cylinders 2 1/2, 2 1/2, 35 Length of Stroke 2 1/2 Revs. per minute 105 Dia. of Screw shaft 4 1/2 Material of screw shaft 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
Is 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 yes If two
liners are fitted, is the shaft lapped or protected between the liners — Length of stern bush 2-9
Dia. of Tunnel shaft as per rule 6-9 Dia. of Crank shaft journals as per rule 4 1/4 Dia. of Crank pin 4 3/8 Size of Crank webs 14 3/4 Dia. of thrust shaft under
collars 4 3/8 Dia. of screw 9-6 Pitch of Screw 11-6 No. of Blades 4 State whether moveable No Total surface 34
No. of Feed pumps 1 Diameter of ditto 2 3/4 Stroke 13 1/2 Can one be overhauled while the other is at work —
No. of Bilge pumps 1 Diameter of ditto 2 3/4 Stroke 13 1/2 Can one be overhauled while the other is at work —
No. of Donkey Engines Two & Sizes of Pumps 5 centrifugal 3 1/2 6 flywheel No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 2-2 (Eng. Room aft. & forward) In Holds, &c. 4-2 (No. 1 & 2 Slushwell &
No. 1 & 2 hold. (all suction connected to ejector)
No. of Bilge Injections 1 sizes 3 1/2 Connected to condenser, or to circulating pump No. Is a separate Donkey Suction fitted in Engine room & size yes 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 —
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
That pipes are carried through the bunkers None Forward Suctions How are they protected Wood casings & iron plates
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 20-3-17 of Stern Tube 20-3-17 Screw shaft and Propeller 21-3-17
Is the Screw Shaft Tunnel watertight none Is it fitted with a watertight door — worked from —

Boilers, &c.—(Letter for record S.) Manufacturers of Steel
Total Heating Surface of Boilers 1323 Is Forced Draft fitted No. and Description of Boilers 1 Single ended marine
Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test No. of Certificate
Can each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
Each boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
No. of seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
Percentages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in plate
Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter
Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
Working pressure of furnace by rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space:
Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays
Diameter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
Thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each
Working pressure by rules Superheater on Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked
Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
Pitched 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

PLEASE SEE HULL RPT No. 29952

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No. Description
 Made at By whom made When made Where fired
 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
 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:— 2 Ton Rod top & 2 Ton Rod bottom and bolts & nuts, 1 set of coupling bolts, 1 set of feed & bilge pump valves, A quantity of assorted bolts & nuts, 1 propeller & 1 set of various sizes.

The foregoing is a correct description,

WILLIAM BEARDMORE & CO., LIMITED.

Manufacturer. per R. Sneddon

Dates During progress of work in shops - - 1916. Mch. 1. Nov. 27. Dec. 1. 12. 20. 26. 1917 Jan. 10. 30. Feb. 22. Mch. 6. 15. 27.
 of Survey while building First Date LAST VISIT. 15-5-17 NO OF VISITS
 Total No. of visits 12 Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts—Cylinders 10-1-14 Slides 10-1-14 Covers 10-1-14 Pistons 10-1-14 Rods 24-11-14
 Connecting rods 24-11-16 Crank shaft 10-1-14 Thrust shaft 22-2-14 Tunnel shafts — Screw shaft 22-2-14 Propeller 22-2-14
 Stern tube 22-2-14 Steam pipes tested 14-4-17 Engine and boiler seatings 12-1-17 Engines holding down bolts 11-4-17
 Completion of pumping arrangements 15-5-17 Boilers fixed 18-4-17 Engines tried under steam 26-4-17
 Main boiler safety valves adjusted 26-4-17 (205 lbs) Thickness of adjusting washers 5/16
 Material of Crank shaft S Identification Mark on Do. 9323 J.P. 10-1-14 Material of Thrust shaft S Identification Mark on Do. 9323 F.A.F. 22-2-14
 Material of Tunnel shafts none Identification Marks on Do. Material of Screw shafts S Identification Marks on Do. 9323 F.A.F. 22-2-14
 Material of Steam Pipes Copper, 3 1/2 DIA. 6.1.W.G Test pressure 400 lbs

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

The Engines have been built under special survey in accordance with the Rules of the Society & have been forwarded to Goolie to be fitted on board the vessel.

The workmanship & materials are of good quality throughout. The Machinery is eligible, in my opinion to have the record + L.M.C. with date when it has been newly fitted on board & tried under steam with satisfactory results.

The Engines & Boiler of this Vessel have been placed on board and efficiently secured in position and on completion tried under steam & found to work satisfactorily, the safety valves have been adjusted under steam and tested for accumulation.

In my opinion this vessel's machinery now appears to be eligible for record of + LMC 5-17.

It is submitted that this vessel is eligible for THE RECORD + LMC 5-17.

W.H. Roberts

Fred. A. Ferguson

The amount of Entry Fee .. £ 1 : 0 : 0 When applied for, Special .. £ 12 : 0 : 0 Hull .. £ 2 : 0 : 0 2/3 fee for Hull Office 8 : 0 : 0 Travelling Expenses (if any) £ .. : .. : When received, 17/6/17

Committee's Minute GLASGOW. 17 APR 1917

Assigned Deferred for compln

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