

Date of writing Report 20-10-1924 When handed in at Local Office 22-10-1924 Port of Aberdeen

No. in Survey held at Aberdeen

Date, First Survey 5th November 1923 Last Survey 14th October 1924

Reg. Book.

(Number of Visits 1)

on the Single S.S. ANNACHMORE

Gross 582.56

Net 270.90

Master Built at Aberdeen By whom built J. Lewis & Sons Ltd 11th 75 When built 1924

Engines made at Aberdeen By whom made J. Lewis & Sons Ltd Eng 172 when made 1924

Boilers made at Do By whom made Do Bl 187 when made 1924

Registered Horse Power Owners St Helens Colliery & Brick Works Ltd Port belonging to Workington

Nom. Horse Power as per Section 28 105 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 14", 24", 39" Length of Stroke 27" Revs. per minute 90 Dia. of Screw shaft as per rule 8 1/4" 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
in the propeller boss yes If the liner is in more than one length are the joints burned no joint 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 space If two
liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 3'-0"
Dia. of Tunnel shaft as per rule 7.04" Dia. of Crank shaft journals as per rule 7.53" Dia. of Crank pin 7 3/4" Size of Crank webs 10 1/2" x 5 1/2" Dia. of thrust shaft under
collars 7 3/4" Dia. of screw 10'-0" Pitch of Screw 14'-0" No. of Blades 4 State whether moveable No Total surface 40 sq ft
No. of Feed pumps 2 Diameter of ditto 2 3/4" Stroke 13 1/2" Can one be overhauled while the other is at work yes
No. of Bilge pumps 2 Diameter of ditto 2 3/4" Stroke 13 1/2" Can one be overhauled while the other is at work yes
No. of Donkey Engines Two Sizes of Pumps 8" x 8" x 8" Blt; 6" x 4" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps
In Engine Room 3 @ 2 1/2" and one direct bilge 2 1/2" In Holds, &c. 2 @ 2"

No. of Bilge Injections 1 sizes 3 1/2" Connected to condenser, or to circulating pump C.P. 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
Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Both Valves & Cocks
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 Suctions from fore hold How are they protected Strong 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
Is the Screw Shaft Tunnel watertight no tunnel Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record S) Manufacturers of Steel William Beardmore & Co Ltd Glasgow

Total Heating Surface of Boilers 1883 Is Forced Draft fitted no No. and Description of Boilers One S.E. Multitubular
Working Pressure 180 lbs Tested by hydraulic pressure to 320 lbs Date of test 29-8-24 No. of Certificate 1035
Can each boiler be worked separately Area of fire grate in each boiler 54 sq ft No. and Description of Safety Valves to
each boiler 2 direct spring Area of each valve 4.068 sq in Pressure to which they are adjusted 185 lbs Are they fitted with easing gear yes
Smallest distance between boilers or uptakes and bunkers or woodwork 2'-9" Mean dia. of boilers 13'-6 1/2" Length 10'-6" Material of shell plates Steel
Thickness 1/8" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams D.P. LAP
long. seams T.P.D.B.S Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 8 3/8" SR Lap of plates or width of butt straps 1 7/8" 3/32"
Per centages of strength of longitudinal joint rivets 90.5% Working pressure of shell by rules 182.4 Size of manhole in shell 16" x 12"
plate 85.7% 3 pf.
Size of compensating ring 1/4" x 1 1/8" No. and Description of Furnaces in each boiler 3 PLAIN Material Steel Outside diameter 3'-4 3/4"
Length of plain part top 18 1/2" Thickness of plates crown 3/4" Description of longitudinal joint weld No. of strengthening rings none
bottom 68" bottom 3/4"
Working pressure of furnace by the rules 183.5 Combustion chamber plates: Material Steel Thickness: Sides 23/32" Back 1 1/16" Top 23/32" Bottom 23/32"
Pitch of stays to ditto: Sides 9 1/4" x 10 3/4" Back 9 3/8" x 10" Top 9 1/4" x 10 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180.6 Sides
Material of stays Steel Area at smallest part 2.009 Area supported by each stay 91.25 sq in Working pressure by rules 182.6 Side End plates in steam space:
Material Steel Thickness 1 3/16" Pitch of stays 9 1/2" x 18 1/2" How are stays secured D.N.W. Working pressure by rules 190 lbs Material of stays Steel
Area at smallest part 6.154 sq in Area supported by each stay 36.1 sq in Working pressure by rules 186.3 Material of Front plates at bottom Steel
Thickness 1/32" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 14 1/16" x 7" Working pressure of plate by rules 184.5
Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" x 4 3/8" Material of tube plates Steel Thickness: Front 1 3/32" Back 13/16" Mean pitch of stays 13 1/2" x 8 3/4"
Pitch across wide water spaces 14 1/2" Working pressures by rules 191.8, 185.4 Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 9 1/4" x 9 1/2" Length as per rule 29.5" Distance apart 10 1/2" Number and pitch of stays in each 2 @ 9 1/4"
Working pressure by rules 181.8 Steam dome: description of joint to shell NONE % 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 none Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

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IS A DONKEY BOILER FITTED? No ✓

If so, is a report now forwarded? ✓

SPARE GEAR. State the articles supplied:— 2. Top end + 2 Connecting rod bottom end bolts & nuts, 2 main bearing + 1 set of Coupling bolts & nuts. 1 set each of Air, Circulating, Feed, Bilge pump Valves. 1 Main + 1 donkey feed check Valve. 1 Safety Valve Spring. 1 Cylinder + 1 Feed escape Valve Spring for each ring fitted. 12 Gauge glasses & packing washers 1/2 dozen spare Condenser tubes. 4 Patent tube stoppers for Main Boiler, a quantity of Assorted bolts & nuts, and iron. 1 Cast Iron Propeller, pump ring bolts, and blades for covers. ✓

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

John I. Donald

Manufacturer.

Dates of Survey while building { During progress of work in shops - - - 1923 Nov 5th Dec 4, 24. Jan 22. Feb 22, 25. Apr 9, 24, 25, 30 May 12, 19, 27 Jun 11, 20, 23, 29. Aug 6, 12, 20, 22, 27. Sep 2, 9, 10
During erection on board vessel - - - Sep 15, 18, 23, 24, 25, 30, Oct 3, 6, 9, 13, 14.
Total No. of visits 38

Is the approved plan of main boiler forwarded herewith Yes ✓
" " " donkey " " " none ✓

Dates of Examination of principal parts—Cylinders 25-4-24 Slides 12-5-24 Covers 25-4-24 Pistons 29-7-24 Rods 27-5-24
Connecting rods 12-5-24 Crank shaft ✓ Thrust shaft 23-6-24 Tunnel shafts ✓ Screw shaft 23-6-24 Propeller 27-8-24
Stern tube 29-7-24 Steam pipes tested 30-9-24 Engine and boiler seatings 2-9-24 Engines holding down bolts 24-9-24
Completion of pumping arrangements 14-10-24 Boilers fixed 18-9-24 Engines tried under steam 14-10-24
Completion of fitting sea connections 10-9-24 Stern tube 28-8-24 Screw shaft and propeller 2-9-24
Main boiler safety valves adjusted 14-10-24 Thickness of adjusting washers, Port Valve 3/8" Star Valve 3/8"
Material of Crank shaft Steel Identification Mark on Do. 979888 Material of Thrust shaft Steel Identification Mark on Do. 1444ACEW
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts IRON Identification Marks on Do. 1445ACEW
Material of Steam Pipes Solid drawn Copper 3 3/4 bore No 6 LMC ✓ Test pressure 360 lbs per sq. in. Hyd pressure ✓
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. Boiler NO If so, state name of vessel, S.S. "Annagher" Abn Rlt 13390

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

These Engines and Boiler have been constructed under Special Survey and in accordance with the Secretary's letter, the Rules, and approved plans. The Materials and Workmanship are good, when completed, and properly fitted on board, they were tried under steam at full power at moorings with satisfactory results, and are now in good order, and in my opinion entitled to the record of LMC 10.24. (in red) in the Register Book.

An Electric light installation has been fitted on board, a report on which is forwarded herewith.

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 10.24. CL.

The amount of Entry Fee ... £ 3 : 0 : 0 When applied for,
Special ... £ 26 : 5 : 0 22-10-1924
Donkey Boiler Fee ... £ : : :
Travelling Expenses (if any) £ ✓ : : : 25

Committee's Minute

Assigned

TUES. 28 OCT 1924

+ L.M.C. 10.24

C.L.

TUES. 25 NOV 1924

C. E. Wilkes

Engineer Surveyor to Lloyd's Register of Shipping.



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