

	Copper or Y.M. in Ship.	Iron in Ship.	Inches requir- per Ru
.....	✓	1 2	1 2
y	✓	1 2	1 2
.....	✓		
Clamp	✓	1 2	1 2
y	✓	1 2	1 2
.....	✓		
Clamp	✓	1 2	1 2
f Deck	✓	1 2	1 2

Iron or Steel give the

Date of writing Report 19 1919 when handed in at Local Office 19 May 1919 Port of Grimsby 13/2/20
 No. in Survey held at Grimsby Date, First Survey Dec' 6. 1918 Last Survey May 21. 1919
 Reg. Book: League for Tag 51715 (Number of Visits 5)
 Master Ben Holland Built at Grimsby By whom built W. H. Warren Tons 1919
 Engines made at Grimsby By whom made R. C. Walker & Co (1911) when made 1919
 Boilers made at Grimsby By whom made Grimsby when made 1920
 Registered Horse Power 15 Owners B. W. Steamship Co Ltd Port belonging to Hull
 Nom. Horse Power as per Section 28 15 Is Refrigerating Machinery fitted for cargo purposes ✓ Is Electric Light fitted ✓

ENGINES, &c. — Description of Engines *Compound* No. of Cylinders *2* No. of Cranks *2*
 Dia. of Cylinders *9 & 18* Length of Stroke *12* Revs. per minute *200* Dia. of Screw shaft *as per rule 4.2* Material of *Steel*
as fitted 4.4 screw shaft
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube *No liners* Is the after end of the liner made water tight
 in the propeller boss 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 *20 1/2*
 Dia. of Tunnel shaft *as per rule 3.6* Dia. of Crank shaft journals *as per rule 3.8* Dia. of Crank pin *4* Size of Crank webs *14 & 2 1/2* Dia. of thrust shaft under
as fitted 2 1/8 *as fitted 4*
 collars *4* Dia. of screw *4-9* Pitch of Screw *5-0* No. of Blades *4* State whether moveable *No* Total surface *9.5 ft*
 No. of Feed pumps *1* Diameter of ditto *1 3/4* Stroke *6* Can one be overhauled while the other is at work
 No. of Bilge pumps *1* Diameter of ditto *2* Stroke *6* Can one be overhauled while the other is at work
 No. of Donkey Engines *One* Sizes of Pumps *1 1/2 x 4 x 8 Single* No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room *3 @ 2"* In Holds, &c. *1 @ 2"*

No. of Bilge Injections *1* sizes *2* Connected to condenser, or to circulating pump *Chp* Is a separate Donkey Suction fitted in Engine room & size *fe 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 *None*
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 *None* How are they protected *L*
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 *4/6/19* of Stern Tube *4/6/19* Screw shaft and Propeller *4/6/19*
Is the Screw Shaft Tunnel watertight *None* Is it fitted with a watertight door *worked from*

Boilers, &c.—(Letter for record		(5) Manufacturers of Steel	
Total Heating Surface of Boilers	Is Forced Draft fitted	No. and Description of Boilers	
Working Pressure	Tested by hydraulic pressure to	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
long. seams	Diameter of rivet holes in long. seams	Pitch of rivets	Lap of plates or width of butt straps
Per centages of strength of longitudinal joint	Working pressure of shell by rules	Size of manhole in shell	
Size of compensating ring	No. and Description of Furnaces in each boiler	Material	Outside diameter
Length of plain part	Thickness of plates	Description of longitudinal joint	No. of strengthening rings
Working pressure of furnace by the 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
Material	Thickness	Pitch of stays	How are stays secured
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
Diameter of tubes	Pitch of tubes	Material of tube plates	Thickness: Front Back
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 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	Pitch of rivets	Working pressure of shell by rules	Diameter of flue
Material of flue plates	Thickness	End plates: Thickness	How stayed
Working pressure of end plates	Area of safety valves to superheater	Are they fitted with easing gear	

MINISTRY OF
WRITTEN.
18/3/20

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
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 connecting rods top end & two connecting rods bottom end & 1 set coupling bolts & nuts. 2 main bearing bolts & nuts. 1 set air feed & bilge pump valves, one feed & donkey check valve. A quantity of bolts & nuts & iron of various sizes.

The foregoing is a correct description,
For R. G. WALKER, LTD.
Arthur Walker (manager) Manufacturer.

Dates of Survey while building { During progress of work in shops -- }
{ During erection on board vessel -- }
Total No. of visits Hull: Jun 4. Aug. 19. Oct. 2. Dec. 11. 30 - 1920 :- Feb. 6. 13. = 8.

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders Dec 6-1918 Slides 31/3/19 Covers 6/12/18 Pistons 6/12/18 Rods 31/3/19
Connecting rods 31/3/19 Crank shaft 31/3/19 Thrust shaft 27/11/19 Tunnel shafts ✓ Screw shaft 27/11/19 Propeller 5/12/19
Stern tube 27/11/19 5 1/2" Steam pipes tested 2/10/19 Engine and boiler seatings 19/8/19 Engines holding down bolts 19/8/19
Completion of pumping arrangements 30/12/19 Boilers fixed 11/12/19 Engines tried under steam 30/12/19
Main boiler safety valves adjusted 11/12/19 Thickness of adjusting washers 5 3/8" P 5/8"
Material of Crank shaft Steel Identification Mark on Do. G.S.N. Material of Thrust shaft Steel Identification Mark on Do.
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts 5" Identification Marks on Do.
Material of Steam Pipes 100 lbs Test pressure 260.

General Remarks (State quality of workmanship, opinions as to class, &c.) The machinery has been built under special survey; the materials & workmanship are good. The machinery has been sent to Hull where it will be fitted on board. The machinery has been satisfactorily fitted on board. On completion the machinery was tried in the Dumba with satisfactory results. The machinery throughout is now in a good & efficient condition & eligible in my opinion to have the record LMC-2-20 marked in Red in the Society's Register Book.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 2.20

The amount of Entry Fee £ 1 : - : - When applied for.
Special £ 2 : 13 : 4 19 May 1919
Donkey Boiler Fee £ 3 : 4 : 8 7/2/20 Hull
Travelling Expenses (if any) £ 3 : 12 : 6 19/11/19
Committee's Minute ERI.5-MAR.19
Assigned + L.M.C. 2.20

Engineer Surveyor to Lloyd's Register of British & Foreign Ships



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