

# REPORT ON MACHINERY.

No. 49741

Hull Rpt No. 30144

Date of writing Report 6 MAR 1917 When handed in at Local Office 6 MAR 1917 Port of London Received at London Office 6 MAR 1917

No. in Survey held at Newbury Date, First Survey 9th March 1915 Last Survey 22 Feb 1917  
Reg. Book. 684 on the Kronshout Motor Engines "M 212" Mary Birch (Number of Visits 8 15-9-17 Hull  
Gross 228 Net 113

Master Newbury Built at New Holland By whom built W. H. Warren When built 1914-9

Engines made at Newbury By whom made Plenty & Co Ld when made 1914-9

Boilers made at Newbury By whom made Plenty & Co Ld when made 1914-9

Registered Horse Power 180 Owners J. F. Birch & Co Ld Port belonging to Hull  
Horse Power as per Section 28 180 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines Kronshout Motor 2 stroke cycle No. of Cylinders 4 No. of Cranks 4  
Dia. of Cylinders 335 1/2 Length of Stroke 350 1/2 Revs. per minute 300 Dia. of Screw shaft 6 Material of screw shaft Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube no Is the after end of the liner made water tight no  
the propeller boss no If the liner is in more than one length are the joints burned no If the liner does not fit tightly at the part no  
between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive no If two no  
liners are fitted, is the shaft lapped or protected between the liners no Length of stern bush 2'-0 1/2"

Dia. of Funnel shaft 5-1 as per rule 124-74 Dia. of Crank shaft journals 135 1/2 as per rule 135 1/2 Dia. of Crank pin 135 1/2 Size of Crank webs 175-27 1/2 Dia. of thrust shaft under 130 1/2  
collars 30 1/2 Dia. of screw 5-6 Pitch of Screw 3-6 No. of Blades 4 State whether moveable no Total surface 12 sq feet

No. of Feed pumps 1 Diameter of ditto 15 1/2 Stroke 65 1/2 Can one be overhauled while the other is at work no  
No. of Bilge pumps one Diameter of ditto 15 1/2 Stroke 65 1/2 Can one be overhauled while the other is at work no

No. of Donkey Engines one Sizes of Pumps 3 1/2 x 4 1/2 No. and size of Suctions connected to both Bilge and Donkey pumps two 2' dia  
in Engine Room one 2' dia In Holds, &c. two 2' dia

No. of Bilge Injections 1 sizes 2" Connected to condenser, or to circulating pump yes 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 no  
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 no 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 no How are they protected no

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 yes

VALVES, &c.—(Letter for record no) Manufacturers of Steel no

Is Forced Draft fitted no No. and Description of Boilers no

Working Pressure no Tested by hydraulic pressure to no Date of test no No. of Certificate no

Can each boiler be worked separately no Area of fire grate in each boiler no No. and Description of Safety Valves to no  
each boiler no Area of each valve no Pressure to which they are adjusted no Are they fitted with easing gear no

Smallest distance between boilers or uptakes and bunkers or woodwork no Mean dia. of boilers no Length no Material of shell plates no  
Thickness no Range of tensile strength no Are the shell plates welded or flanged no Descrip. of riveting: cir. seams no  
g. seams no Diameter of rivet holes in long. seams no Pitch of rivets no Lap of plates or width of butt straps no  
Percentages of strength of longitudinal joint no Working pressure of shell by rules no Size of manhole in shell no  
No. of compensating ring no No. and Description of Furnaces in each boiler no Material no Outside diameter no  
Length of plain part no Thickness of plates no Description of longitudinal joint no No. of strengthening rings no  
Working pressure of furnace by the rules no Combustion chamber plates: Material no Thickness: Sides no Back no Top no Bottom no  
No. of stays to ditto: Sides no Back no Top no If stays are fitted with nuts or riveted heads no Working pressure by rules no  
Material of stays no Area at smallest part no Area supported by each stay no Working pressure by rules no End plates in steam space: no  
Material no Thickness no Pitch of stays no How are stays secured no Working pressure by rules no Material of stays no  
Area at smallest part no Area supported by each stay no Working pressure by rules no Material of Front plates at bottom no  
Thickness no Material of Lower back plate no Thickness no Greatest pitch of stays no Working pressure of plate by rules no  
Diameter of tubes no Pitch of tubes no Material of tube plates no Thickness: Front no Back no Mean pitch of stays no  
Working pressures by rules no Girders to Chamber tops: Material no Depth and no  
Thickness of girder at centre no Length as per rule no Distance apart no Number and pitch of stays in each no  
Working pressure by rules no Steam dome: description of joint to shell no % of strength of joint no  
Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet holes no  
Working pressure of shell by rules no Crown plates no Thickness no How stayed no

Superheater. Type no Date of Approval of Plan no Tested by Hydraulic Pressure to no  
Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler no  
Pressure to which each is adjusted no Is Easing Gear fitted no

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