

REPORT ON MACHINERY.

No. 22989

Port of Glasgow

RECEIVED 25 JUL 1905

Received at London Office 19

No. in Survey held at Glasgow
Reg. Book.

Date, first Survey 23rd Jan'y Last Survey 12th July 1905
(Number of Visits)

on the S.S. "Ashburton"

Tons { Gross
Net

Master Built at Glasgow By whom built D. W. Henderson & Co. Ltd When built 1905

Engines made at Glasgow By whom made D. W. Henderson & Co. Ltd when made 1905

Boilers made at Glasgow By whom made D. W. Henderson & Co. Ltd when made 1905

Registered Horse Power 485 Owners Bethell & Co Port belonging to London

Nom. Horse Power as per Section 28 485 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

see letter from 28.7.05

ENGINES, &c.—Description of Engines Triple Compound No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 26. 44. 73 Length of Stroke 48" Revs. per minute 75 Dia. of Screw shaft as per rule 14.9 Material of screw shaft steel
as fitted 15.3/4

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 one length 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 yes Length of stern bush 6'-6"

Dia. of Tunnel shaft as per rule 13.5-6 Dia. of Crank shaft journals as per rule 14.2 Dia. of Crank pin 15" Size of Crank webs 19 1/2 x 9 Dia. of thrust shaft under collars 14 3/4" Dia. of screw 18.0" Pitch of screw 17' 9" No. of blades 4 State whether moceable yes Total surface 96 sq ft
as fitted 14.7/6 as fitted 14.3/4

No. of Feed pumps 2 Diameter of ditto 4 1/4" Stroke 27" Can one be overhauled while the other is at work yes
No. of Bilge pumps 2 Diameter of ditto 4 1/4" Stroke 27" Can one be overhauled while the other is at work yes
No. of Donkey Engines 4 Sizes of Pumps (1) 9 x 11 x 10 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room Two 3 1/2" In Holds, &c. Forward 2 in each hold 3 1/2" dia
aft 2 in each hold 3 1/2" dia & 1 in tunnel with 2 1/2"

No. of bilge injections 1 sizes 7 1/2" 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 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 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 forward bilge pipes How are they protected 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

When were stern tube, propeller, screw shaft, and all connections examined in dry dock before launch Is the screw shaft tunnel watertight yes

Is it fitted with a watertight door yes worked from upper platform

BOILERS, &c.— (Letter for record S) Total Heating Surface of Boilers 6637 sq ft Is forced draft fitted yes

No. and Description of Boilers 3 single ended return tube Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs
no of test = 7.5.05

Date of test 12/6/05 Can each boiler be worked separately yes Area of fire grate in each boiler 57 3/4" No. and Description of safety valves to each boiler 2 spring loaded Area of each valve 11.07 sq in Pressure to which they are adjusted 205 lbs Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 16" Mean dia. of boilers 14.9 Length 11.6 Material of shell plates steel

Thickness 1 1/2" Range of tensile strength 28-32 Are they welded or flanged no Descrip. of riveting: cir. seams double lap long. seams butt

Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 10" Lap of plates on width of butt straps 2 1/4"

Per centages of strength of longitudinal joint rivets 87.5 Working pressure of shell by rules 230 lbs Size of manhole in shell 16 x 12"
plate 56.0

Size of compensating ring 28 x 32" No. and Description of Furnaces in each boiler 3 Deighton Material steel Outside diameter 46 7/8"

Length of plain part top 1 1/2" Thickness of plates crown 3/32 bottom 3/32 Description of longitudinal joint welded No. of strengthening rings 4

Is a Report also sent on the Hull of the Ship?

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