

REPORT ON MACHINERY.

No. 47036

1 HUR. 26 MAY 1904

Port of Newcastle

Received at London Office 19

No. in Survey held at Newcastle

Date, first Survey Dec 16 '03 Last Survey May 16 1904

Reg. Book.

on the S/S. "Dimone"

(Number of Visits 19)

Master Bl. Jorgensen Built at Newcastle

By whom built Wood Skinner & Co

Tons { Gross 1174
Net 723

Engines made at Wallsend

By whom made H. & M. Eng. Co Ltd

When built 1904

Boilers made at do.

By whom made do.

when made 1904

Registered Horse Power

Owners Martin Gail

when made 1904

Nom. Horse Power as per Section 28 130

Is Refrigerating Machinery fitted no.

Port belonging to Copenhagen

Is Electric Light fitted no.

ENGINES, &c.—Description of Engines Tri Compound

Dia. of Cylinders 17 1/2 29 48 Length of Stroke 33 Revs. per minute 70 No. of Cylinders 3 No. of Cranks 3

Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes Dia. of Screw shaft as per rule 10 3/4 Material of screw shaft iron

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 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 yes Length of stern bush 3' 6"

Dia. of Tunnel shaft as per rule 8 3/4 Dia. of Crank shaft journals as per rule 9 1/2 Dia. of Crank pin 9 1/2 Size of Crank webs 18 1/2 x 6 Dia. of thrust shaft under collars 9 1/2 Dia. of screw 1 3/4 Pitch of screw 13 1/2 No. of blades 4 State whether moveable no Total surface 50 sq ft

No. of Feed pumps 3 Diameter of ditto 3" Stroke 16 1/2 Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 3 Stroke 16 1/2 Can one be overhauled while the other is at work yes

No. of Donkey Engines 2 Sizes of Pumps 6 x 8 1/2 x 8 1/2 x 3 1/2 x 5 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 3 of 2 1/2 In Holds, &c. 2 of 2 1/2" to each hold

No. of bilge injections 1 sizes 4" Connected to condenser, or to circulating pump CP 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 yes

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 yes

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 new vessel Is the screw shaft tunnel watertight yes

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

BOILERS, &c.— (Letter for record S.) Total Heating Surface of Boilers 2067

Is forced draft fitted no

No. and Description of Boilers 1 Marine type Working Pressure 180 lb Tested by hydraulic pressure to 260 lb

Date of test 18.3.04 Can each boiler be worked separately no Area of fire grate in each boiler 50.9 sq ft No. and Description of safety valves to each boiler 2 Area of each valve 7.07 Pressure to which they are adjusted 185 lb Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 14' 11" Length 10 ft Material of shell plates S

Thickness 1 3/32 Range of tensile strength 29 32 Are they welded or flanged ends Descrip. of riveting: cir. seams Lap Dr. long. seams d. butt. Strap

Diameter of rivet holes in long. seams 1 7/8" Pitch of rivets 9 1/4" Lap of plates or width of butt straps 17 1/4"

Per centages of strength of longitudinal joint rivets 82 Working pressure of shell by rules 182 1/2 Size of manhole in shell End 26" x 12 1/2"

Size of compensating ring flanged No. and Description of Furnaces in each boiler 3 Deights Material S. Outside diameter 44 1/2"

Length of plain part top 17 1/32 Thickness of plates crown 17 1/32 Description of longitudinal joint weld No. of strengthening rings no

Working pressure of furnace by the rules 183 Combustion chamber plates: Material S. Thickness: Sides 3 3/32 Back 1 1/2" Top 2 1/32 Bottom 3 1/32

Pitch of stays to ditto: Sides 9 x 10 1/2 Back 9 1/2 x 9 1/2 Top 10 1/2 x 9 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 183 1/2

Material of stays S. Diameter at smallest part 1 7/8" Area supported by each stay 94 sq in Working pressure by rules 180 End plates in steam space:

Material S. Thickness 1 3/32 Pitch of stays 23 x 20 3/8 How are stays secured d nuts Working pressure by rules 181 Material of stays S.

Diameter at smallest part 8 1/4 Area supported by each stay 468 sq in Working pressure by rules 181 Material of Front plates at bottom S.

Thickness 1 Material of Lower back plate S. Thickness 3 3/32 Greatest pitch of stays 14 1/2" Working pressure of plate by rules 181

Diameter of tubes 3 1/4" Pitch of tubes 4 1/2 x 4 3/8 Material of tube plates S. Thickness: Front 1" Back 3/4" Mean pitch of stays 9"

Pitch across wide water spaces 14 1/2 Working pressures by rules 189 Girders to Chamber tops: Material S. Depth and thickness of girder at centre 9 1/2 x 1 1/2 Length as per rule 33" Distance apart 9" Number and pitch of Stays in each 2 of 10"

Working pressure by rules 184 Superheater or Steam chest; how connected to boiler no Can the superheater be shut off and the boiler worked separately no

Diameter no Length no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet holes no Pitch of rivets no Working pressure of shell by rules no Diameter of flue no Material of flue plates no Thickness no

If stiffened with rings no Distance between rings no Working pressure by rules no End plates: Thickness no How stayed no

Working pressure of end plates no Area of safety valves to superheater no Are they fitted with easing gear no



DONKEY BOILER— No. 1 Description Blakes patent
 Made at Middlesbrough By whom made Richardson Westgarth When made 1904 Where fixed Stockhold
 Working pressure 80 tested by hydraulic pressure to 160 No. of Certificate 3151 Fire grate area 17.4 Description of safety valves Spring
 No. of safety valves 2 Area of each 4.9 Pressure to which they are adjusted 85 If fitted with casing gear 420 If steam from main boilers can enter the donkey boiler no. Dia. of donkey boiler 6' 6" Length 13' 6" Material of shell plates S Thickness 2 1/16" Range of tensile strength 27-32 Descrip. of riveting long. seams DR lap Dia. of rivet holes 3/16 Whether punched or drilled D Pitch of rivets 2 7/8"
 Lap of plating 4 1/4" Per centage of strength of joint Rivets 46 Thickness of shell crown plates 7/16 Radius of do. 3' 3" No. of Stays to do. —
 Dia. of stays — Diameter of furnace Top 3' 3" Bottom 5' 2 1/8" Length of furnace 4' 1" Thickness of furnace plates 1 1/2" Description of joint DR lap Thickness of furnace crown plates 1 7/32 Stayed by deck 3' 9" Rad. Working pressure of shell by rules 85
 Working pressure of furnace by rules 88 1/2 Diameter of uptake 2 1/2 Thickness of uptake plates F 3/16 2 1/2 inch Thickness of water tubes 3 5/8

SPARE GEAR. State the articles supplied:— 2 Connecting rod top end bolts & nuts
2 bottom end bolts & nuts. 2 main bearing bolts & nuts
1 set coupling bolts. 1 set feed and bilge pump valves.

The foregoing is a correct description,
THE NORTH EASTERN MARINE ENGINEERING CO. LR
 Manufacturer.

J. G. Stevenson

Dates of Survey while building
 During progress of work in shops— 1903 Dec. 16, 1904 Jan. 11, 27, Feb. 2, 8, 11, 15, 19, 25, March 2, 12, 18, 21, April 11, 19, 25, May 5, 7, 16
 During erection on board vessel—
 Total No. of 19

Is the approved plan of main boiler forwarded herewith yes.
 " " " donkey " " " no

General Remarks (State quality of workmanship, opinions as to class, &c.)
Machinery and boilers constructed under special survey. Materials & workmanship good. In my opinion this vessel is eligible for the record of L.M.C 5/04 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD L.M.C. 5.04

J.S.
26.5.04

Newcastle-on-Tyne.

Amount of Entry Fee. . . £ 2 : . . :
 Special £ 18 : 12 :
 Boiler Fee £ . . . :
 Expenses (if any) £ . . . :

When applied for, 25 MAY 1904
 When received, 27.5.04

J. J. Lindley
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Con. Minute Assign.

FRI. 27 MAY 1904

+ L.M.C. 5.04

MACHINERY CERTIFICATE WRITTEN.



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