

REPORT ON MACHINERY.

No. 48051

Port of Newcastle.No. in Survey held at Newcastle.Date, first Survey July 25

Received at London Office

Last Survey Dec 7 1904

Reg. Book.

on the

S/S. Filippo Artelli(Number of Visits 37)Tons { Gross 5834Net 3832When built 1904Master Q. RadonicBuilt at NewcastleBy whom built Northumberland S.S. Co. Ltd.Engines made at Newcastle.By whom made H. E. M. Eng. Co. Ltd.when made 1904Boilers made at "By whom made "when made 1904

Registered Horse Power

Owners J. LipcovichPort belonging to LivornoNom. Horse Power as per Section 28 458Is Refrigerating Machinery fitted for cargo purposes noIs Electric Light fitted yesENGINES, &c.—Description of Engines In C.P.D.No. of Cylinders 3No. of Cranks 3Cylinders 27" 45" 74"Length of Stroke 48"Revs. per minute 65Dia. of Screw shaft as per rule 14.9"Material of IronMaterial of Ironscrew shaft fitted with a continuous liner the whole length of the stern tube yes

Is the after end of the liner made water tight

propeller boss yes. If the liner is in more than one length are the joints burned ✓

If the liner does not fit tightly at the part

the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓

If two

are fitted, is the shaft lapped for protected between the liners ✓Length of stern bush 5' 3"Tunnel shaft as per rule 1.12"Dia. of Crank shaft journals as per rule 1.2"Dia. of Crank pin 1.22"Size of Crank webs 14 3/4" x 9 1/2"

Dia. of thrust shaft under

1" 2 1/2" Dia. of screw 18 1/2"Pitch of screw 17' 6"No. of blades 4State whether moveable fTotal surface 100 sqFeed pumps 2Diameter of ditto 4"Stroke 26"Can one be overhauled while the other is at work yesBilge pumps 2Diameter of ditto 4 1/2"Stroke 26"Can one be overhauled while the other is at work yesDonkey Engines 2Sizes of Pumps 10x12"x10 1/2"x5"x6"

No. and size of Suctions connected to both Bilge and Donkey pumps

In Holds, &c. 2 of 3 1/2" beach cargo holdIn Room 3 of 3 1/2"In Hold 2 of 3 1/2"Bilge injections 1 sizes 6"Connected to condenser, or to circulating pump C.P.Is a separate donkey suction fitted in Engine room & size 3 1/2"The bilge suction pipes fitted with roses yesAre the roses in Engine room always accessible yesAre the sluices on Engine room bulkheads always accessible ✓connections with the sea direct on the skin of the ship yesAre they Valves or Cocks bothfixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yesAre the discharge pipes above or below the deep water line aboveeach fitted with a discharge valve always accessible on the plating of the vessel yesAre the blow off cocks fitted with a spigot and brass covering plate yespipes are carried through the bunkers noneHow are they protected ✓pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times yesbilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yesThe stern tube, propeller, screw shaft, and all connections examined in dry dock NewcastleIs the screw shaft tunnel watertight yesclosed with a watertight door yesworked from top platform

RS, &c.—

(Letter for record S.)Total Heating Surface of Boilers 7713 sqIs forced draft fitted noDescription of Boilers 3 Marine type S.S.Working Pressure 180Tested by hydraulic pressure to 360 lbstest 2-11-04 Can each boiler be worked separately yesArea of fire grate in each boiler 72.6 sq

No. and Description of safety valves to

per 2 SpringArea of each valve 8.29 sqPressure to which they are adjusted 185 lbsAre they fitted with easing gear yesdistance between boilers or uptakes and bunkers or woodwork 2 feetMean dia. of boilers 16 ft.Length 11 ft.Material of shell plates Sas 1 1/4" Range of tensile strength 32Are they welded or flanged endsDescrip. of riveting: cir. seams A. riv laplong. seams A. butt

Straps

or of rivet holes in long. seams 1/32"Pitch of rivets 8 1/2"Lap of plates on width of butt straps 18 1/2"stages of strength of longitudinal joint rivets 85.6plate 85.6Working pressure of shell by rules 183 1/2Size of manhole in shell 16 x 12"compensating ring flangedNo. and Description of Furnaces in each boiler 4 DeighMaterial SOutside diameter 3' 5 1/2"of plain part top 1/2"Thickness of plates bottom 1/2"Description of longitudinal joint weldNo. of strengthening rings —pressure of furnace by the rules 182Combustion chamber plates: Material SThickness: Sides 1/16"Back 1/16"Top 1/16"Bottom 23/32"stays to ditto: Sides 9 1/2" x 9 3/8"Back 9 1/2" x 9 3/8"Top 9 1/2" x 9 3/8"If stays are fitted with nuts or riveted heads nutsWorking pressure by rules 180l of stays SDiameter at smallest part 1 7/8"Area supported by each stay 89 sqWorking pressure by rules 180

End plates in steam space:

l of stays SThickness 1 1/16"Pitch of stays 23 7/8" x 23"How are stays secured A. nutsWorking pressure by rules 180 1/2Material of stays Sl of stays SDiameter at smallest part 9/8"Area supported by each stay 54 2 1/2 sqWorking pressure by rules 180Material of Front plates at bottom Sl of stays SMaterial of Lower back plate SThickness 1/16"Greatest pitch of stays 14 1/2"Working pressure of plate by rules 202l of stays SPitch of tubes 4 1/2" x 4 3/8"Material of tube plates SThickness: Front 3/32"Back 1/8"Mean pitch of stays 8.87"l of stays SWorking pressures by rules 182Girders to Chamber tops: Material S

Depth and

ness of girder at centre 8 1/2" x 1 1/2"Length as per rule 30"Distance apart 9 3/8"Number and pitch of Stays in each 2 of 9 1/2"Working pressure by rules 186Superheater or Steam chest; how connected to boiler ✓

Can the superheater be shut off and the boiler worked

l of stays SDiameter 10"Length 10"Thickness of shell plates 1/16"Material SDescription of longitudinal joint © 2019

Diam. of rivet

Pitch of rivets 1/4"Working pressure of shell by rules 180Diameter of flue 10"Material of flue plates SThickness 1/16"fitted with rings ✓Distance between rings 10"Working pressure by rules 180End plates: Thickness 1/16"How stayed ✓pressure of end plates 180Area of safety valves to superheater 180Are they fitted with easing gear ✓

DONKEY BOILER— No. 1 Description *Hor. Multitubular*

Made at *Gateshead* By whom made *C. C. & Co. Ltd.*

When made *1904* Where fitted *Main deck*

Working pressure *80* tested by hydraulic pressure to *160*. No. of Certificate *6574* Fire grate area *27* Description of safety valves *Spring*

No. of safety valves *2* Area of each *7.07* Pressure to which they were adjusted *80 lbs* If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *no*

Dia. of donkey boiler *11' 6"* Length *10' 0"* Material of shell plates *S* Thickness *19/32* Range of tensile strength *24* Descrip. of riveting long. seams *Double Row Lap*

Dia. of rivet holes *1 1/16* Whether punched or drilled *D* Pitch of rivets *4 1/16* Lap of plating *6 1/16* Per centage of strength of joint *84.7* Thickness of shell *19/32* plates *18* Radius of do. *2*

Stays to do. *2* Diameter of furnace *3' 5 1/2"* Bottom *✓* Length of furnace *6' 8"* Thickness of furnace plates *9/16* Description of joint *Lap*

Thickness of furnace *15/32* plates *1 1/8* Stays *@ 82 x 10"* Working pressure of shell by rules *85 lbs*

Working pressure of furnace by rules *100 lbs* Diameter of *uptake* *3 1/4* Thickness of *uptake* plates *5/8 + 1/16* Thickness of water tubes *Stay 1/4"*

SPARE GEAR. State the articles supplied:— *1 set connecting rod bolts nuts. 2 main bearing bolts nuts. 1 set coupling bolts nuts. 1 set feed and bilge pump valves. propeller & shaft nuts bolts and assorted iron.*

The foregoing is a correct description,

THE NORTH EASTERN MARINE ENGINEERING CO. LD.

Manufacturer.

J. J. Harrison

During progress of work in shops— *1904 July 28 27 29 Aug 22 23 25 31 Sep 6 13 14 15 20 21 30 Oct 4 13 19 21 25 26 29 31 Nov*
Dates of Survey while building *1 2 4 9 10 11 14 15 16 18 21 29 Dec 2 7*
Total No. of visits *37*

Is the approved plan of main boiler forwarded herewith *yes.*

" " " donkey " " " *yes*

General Remarks (State quality of workmanship, opinions as to class, &c. *Machinery and boilers constructed under Special Survey. Materials and workmanship good. Engines examined under full working conditions & found satisfactory. In my opinion this vessel is now eligible for the record in the Register Book of L.M.C. 12/04*

It is submitted that this vessel is eligible for THE RECORD *L.M.C. 12.04 ELEC:LIGHT*

Imb.
22.12.04

22.12.04

The amount of Entry Fee.. £ *3* : : :
Special .. £ *42 18* : : :
Donkey Boiler Fee .. £ : : :
Travelling Expenses (if any) £ : : :
When applied for, *20 DEC 1904*
When received, *30 17 1904*

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

Committee's Minute *WED, 28 DEC 1904*

Assigned *+ L.M.C. 12.04. Elec light*

MACHINERY CERTIFICATE WRITTEN.



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