

REPORT ON MACHINERY.

Malt No. 4001

Port of MIDDLESBROUGH-ON-TEES.Received at London Office THUR. 10 NOV 1904No. in Survey held at Stockton &Date, first Survey 19th JulyLast Survey 25th Oct. 1904

Reg. Book.

634 on theSteam Trawler "Argosy."(Number of Visits 11)Tons { Gross 406Net 168When built 1905

Master

Built at Hessle - Hull By whom built J. Dobson & CoEngines made at YarmouthBy whom made Crabtree & Cowhen made 1904Boilers made at StocktonBy whom made Niley Bros Ltd No 3432when made 1904

Registered Horse Power

Owners Argosy S. S. Co.Port belonging to LondonNom. Horse Power as per Section 28 73

Is Refrigerating Machinery fitted

Is Electric Light fitted

ENGINES, &c.—Description of Engines See Log Rpt. No. 66,800.

No. of Cylinders

No. of Cranks

Dia. of Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule

Material of

as fitted

screw shaft

Is the screw shaft fitted with a continuous liner the whole length of the stern tube

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

Dia. of Tunnel shaft

as per rule

Dia. of Crank shaft journals

as per rule

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

collars

as fitted

as fitted

as fitted

as fitted

as fitted

Dia. of screw

Pitch of screw

No. of blades

State whether moveable

Total surface

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Donkey Engines

Sizes of Pumps

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

In Engine Room

In Holds, &c.

No. of bilge injections

sizes

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

Are all connections with the sea direct on the skin of the ship

Are they Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are the discharge pipes above or below the deep water line

Are they each fitted with a discharge valve always accessible on the plating of the vessel

Are the blow off cocks fitted with a spigot and brass covering plate

What pipes are carried through the bunkers

How are they protected

Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times

Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges

When were stern tube, propeller, screw shaft, and all connections examined in dry dock

Is the screw shaft tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—

(Letter for record S)Total Heating Surface of Boilers 1280^{ft}Is forced draft fitted NoNo. and Description of Boilers One Cyl Multi-tuple made Working Pressure 180 lb Tested by hydraulic pressure to 360 lbDate of test 28-10-04 Can each boiler be worked separately — Area of fire grate in each boiler 40.6^{ft} No. and Description of safety valves toeach boiler Two direct spring Area of each valve 4.9ⁱⁿ Pressure to which they are adjusted 182 lb Are they fitted with easing gear yesSmallest distance between boilers or uptakes and bunkers or woodwork 6'-4" Mean dia. of boilers 12'-3" Length 10'-3" Material of shell plates steelThickness 1/2" Range of tensile strength 28/32 Are they welded or flanged No Descrip. of riveting: cir. seams 2 1/2 12 in long seams 8 but 8 inDiameter of rivet holes in long. seams 1 1/16 Pitch of rivets 1 in 7/8 line 3 1/16 Lap of plates or width of butt straps 1 1/2Per centages of strength of longitudinal joint rivets 87.2 Working pressure of shell by rules 183 lb Size of manhole in shell 16 x 12Size of compensating ring 7 1/2 x 1 1/2 No. and Description of Furnaces in each boiler 2 Dayton, 12 in Material steel Outside diameter 3'-11 1/2Length of plain part top 6'-2" bottom 6'-2" Thickness of plates crown 1 1/16 bottom 1 1/16 Description of longitudinal joint welded No. of strengthening rings —Working pressure of furnace by the rules 185 lb Combustion chamber plates: Material steel Thickness: Sides 5/8" Back 2 1/32 Top 19/32 Bottom 5/4Pitch of stays to ditto: Sides 8 x 9 1/8 Back 4 x 9 Top 8 x 8 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 183 lbMaterial of stays steel Diameter at smallest part 1 1/2 x 1 5/8 Area supported by each stay 81ⁱⁿ Working pressure by rules 250 lb End plates in steam space:Material steel Thickness 1 1/8 Pitch of stays 16 x 16 How are stays secured 72 x 10 Working pressure by rules 234 lb Material of stays steelDiameter at smallest part 2 1/2 Area supported by each stay 256ⁱⁿ Working pressure by rules 191 lb Material of Front plates at bottom steelThickness 3/32 Material of Lower back plate steel Thickness 25/32 Greatest pitch of stays 12 x 9 Working pressure of plate by rules 218 lbDiameter of tubes 3 1/4 Pitch of tubes 4 1/2 Material of tube plates steel Thickness: Front 29/32 Back 3/4 Mean pitch of stays 9"Pitch across wide water spaces 14 1/4 Working pressures by rules 271 lb Girders to Chamber tops: Material steel Depth andthickness of girder at centre 8 x 1 1/2 Length as per rule 2'-6" Distance apart 6" Number and pitch of Stays in each Two 8"Working pressure by rules 180 lb Superheater or Steam chest; how connected to boiler — Can the superheater be shut off and the boiler workedseparately — Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivetholes — Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —If stiffened with rings — Distance between rings — Working pressure by rules — End plates: Thickness — How stayed —Working pressure of end plates — Area of safety valves to superheater — Are they fitted with easing gear —

W1375-0142

DONKEY BOILER— No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure _____ tested by hydraulic pressure to _____ No. of Certificate _____ Fire grate area _____ Description of safety valves _____

No. of safety valves _____ Area of each _____ Pressure to which they are adjusted _____ 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 _____ 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 _____

Thickness of furnace crown plates _____ Stayed by _____ Working pressure of shell by rules _____

Working pressure of furnace by rules _____ Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____

SPARE GEAR. State the articles supplied:—

FOR The foregoing is a correct description,
RILEY BROS. (BOILERMAKERS) LIMITED. Manufacturer. of main boiler.

A. Lind SECRETARY.
 Dates { During progress of work in shops - - }
 of Survey { During erection on board vessel - - }
 while building { Total No. of visits _____ }
Eleven

1904: July 14. Sept. 6. 8. 12. 14. 24. 26 Oct. 12. 14. 24. 26

Is the approved plan of main boiler forwarded herewith *Yes*
 " " " donkey " " "

General Remarks (State quality of workmanship, opinions as to class, &c.)

The boiler for this vessel has been constructed under Special Survey, the materials and workmanship are good and efficient, and when tested with hydraulic pressure was found tight & satisfactory. The boiler has been sent away to Hull, to be fitted on board the vessel building at Hesle, near Hull. For identification it has been stamped as below.

This boiler has now been fitted and secured on board in accordance with the Rules.

No. **3333.**
 LLOYD'S TEST.
360 lbs.
6.4 m.
28-10-04

The amount of Entry Fee. . . £ : : When applied for, 8. 11. 1904
 Special £ : :
 Donkey Boiler Fee £ 3 : 3 : When received, 11/11/05
 Travelling Expenses (if any) £ : : 10/12/05

Committee's Minute

TUES. 7 FEB 1905

Assigned

Geo A Milner I. Kerr
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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