

# REPORT ON MACHINERY.

50649

TUES 20 MAY 1890

No. 1 Port of London Received at London Office 13  
 No. in Survey held at London Date, first Survey 21 May 89 Last Survey 13 May 1890  
 Reg. Book. S. S. Thames CASE (Number of Visits 16)  
 on the S. S. Thames CASE  
 Master By whom built Kept Harvey Tons Gross  
 Engines made at Vanakall By whom made Alen Wilson 700 when made 1890  
 Boilers made at Bromley By whom made Fraser & Fraser when made 1889  
 Registered Horse Power Wattkins Owners Wattkins Port belonging to London

ENGINES, &c.—  
 Description of Engines Compound surface condensing No. of Cylinders two  
 Diam. of Cylinders 15 and 27 Length of Stroke 18 Rev. per minute 120 Point of Cut off, High Pressure 0.6 Low Pressure 0.4  
 Diameter of Screw shaft 5 1/2 Diam. of Tunnel shaft 5 Diam. of Crank shaft journals 5 Diam. of Crank pin 5 size of Crank webs 6" x 3 1/8"  
 Diameter of screw 6.9" Pitch of screw 9.6" No. of blades 3 state whether moveable no total surface —  
 No. of Feed pumps one diameter of ditto 2" Stroke 9" Can one be overhauled while the other is at work yes  
 No. of Bilge pumps one diameter of ditto 2" Stroke 9" Can one be overhauled while the other is at work yes  
 Where do they pump from Engine room  
 No. of Donkey Engines one Size of Pumps 2 1/2" x 6" stroke Where do they pump from Sea and bilges

Are all the bilge suction pipes fitted with roses yes Are the roses always accessible yes Are the sluices on Engine room bulkheads always accessible yes  
 No. of bilge injections one and sizes 2" Are they connected to condenser, or to circulating pump circulating pump  
 How are the pumps worked Levers from main engines.  
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks valves and cocks  
 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 —  
 Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times yes  
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges yes  
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock not seen in London  
 Is the screw shaft tunnel watertight none and fitted with a sluice door worked from

BOILERS, &c. built for S.S. "Shaperager" but not fitted plates steel.  
 No. of Boilers one Description Cyl. return tubular Material Iron stays & rivets (for record)  
 Working Pressure 85 Tested by hydraulic pressure to 170 Date of test 24 Sept 89  
 Description of superheating apparatus or steam chest vertical dome.  
 Can each boiler be worked separately — Can the superheater be shut off and the boiler worked separately —  
 No. of square feet of fire grate surface in each boiler 30 Description of safety valves spring No. to each boiler two  
 Area of each valve 7.1 Are they fitted with easing gear yes No. of safety valves to superheater — area of each valve —  
 Are they fitted with easing gear — Smallest distance between boilers and bunkers or woodwork 6 inches Diameter of boilers 121 1/4"  
 Length of boilers 8' 9" description of riveting of shell long. seams double R butt cum. seams double R lap thickness of shell plates 5/8"  
 Diameter of rivet holes 1" whether punched or drilled drilled pitch of rivets 3 1/2 Lap of plating 9"  
 Per centage of strength of longitudinal joint 71.4 working pressure of shell by rules 92 size of manholes in shell 12 x 15  
 Size of compensating rings 6" x 5/8 No. of Furnaces in each boiler two Description of Furnaces plan 80mm 14" diam  
 Outside diameter 3' 0" length 6' 0" thickness of plates 1/2" description of joint double butt if rings are fitted yes  
 Greatest length between rings 6' working pressure of furnace by the rules — combustion chamber plating, thickness, sides 1/2 back 1/2 top 9/16  
 Pitch of stays to ditto, sides 9 1/2 back 9 1/2 top 10" If stays are fitted with nuts or riveted heads nuts working pressure of plating by rules 85, 97  
 Diameter of stays at smallest part 1 1/2 (1 1/4) working pressure of ditto by rules 82 end plates in steam space thickness 1/16  
 Pitch of stays to ditto 15" how stays are secured twisted washers & double nuts working pressure by rules 80 diameter of stays at smallest part 2 1/4  
 working pressure by rules 130 Front plates at bottom, thickness 5/8 Back plates, thickness 9/16  
 Greatest pitch of stays 10" working pressure by rules 97 Diameter of tubes 3 1/2 pitch of tubes 4 3/4 thickness of tube plates, front 5/8 back 5/8 how stayed stay tubes pitch of stays 9 1/2 width of water spaces 13"  
 Diameter of Superheater or Steam chest 42" length 4' 6" thickness of plates 1/2" description of longitudinal joint double R butt pitch of rivet holes 15/16  
 Pitch of rivets 2 3/4 working pressure of shell by rules — diameter of flue — thickness of plates — If stiffened with rings —  
 Distance between rings — working pressure by rules — end plates of superheater, or steam chest; thickness 9/16 how stayed Guards  
0 tested. Superheater or steam chest; how connected to boiler Wicks.

(State if Report is also sent on the Hull of the Ship)

LON689-0351



50649

DONKEY BOILER— 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 \_\_\_\_\_ if fitted with easing gear \_\_\_\_\_ if steam from main boilers can  
enter the donkey boiler \_\_\_\_\_ diameter of donkey boiler \_\_\_\_\_ length \_\_\_\_\_ description of riveting \_\_\_\_\_  
Thickness of shell plates \_\_\_\_\_ diameter of rivet holes \_\_\_\_\_ whether punched or drilled \_\_\_\_\_ pitch of rivets \_\_\_\_\_ lap of plating \_\_\_\_\_  
per centage of strength of joint \_\_\_\_\_ thickness of crown plates \_\_\_\_\_ stayed by \_\_\_\_\_  
Diameter of furnace, top \_\_\_\_\_ bottom \_\_\_\_\_ length of furnace \_\_\_\_\_ thickness of 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 plates \_\_\_\_\_ thickness of water tubes \_\_\_\_\_

SPARE GEAR. State the articles supplied :—

The foregoing is a correct description,

Manufacturer.

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

The hauler for this Tug was at first intended for the S.S. "Staperauder"

The material and workmanship of the hauler and engines are good.

The engines were found to work satisfactorily and the safety valves were found to be set at 85 lbs.

It is submitted that this Vessel will be eligible to have L.M.C. 5-90 recorded.

In our opinion the machinery is eligible to have the notification L.M.C. 5.90 recorded in the Register Book.

The amount of Entry Fee .. £ : - : -  
Special .. £ : - : -  
Donkey Boiler Fee .. £ : :  
Certificate (if required) .. £ : : 18  
To be sent as per margin.

(Travelling Expenses, if any, £ )

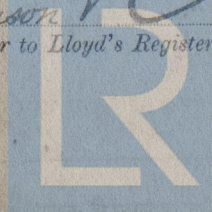
Committee's Minute

applied for 21/5/90  
received by me

14/12/89  
13/6/92

paid 14/12/89 (Staperauder)  
13/6/92

Geo. E. Nicolson & Co. Surveyors  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



Lloyd's Register  
Foundation