

REPORT ON MACHINERY.

in Survey held at
Book.
on the "S. J. Godiva"

(Received at London Office 11th JAN 1883.
Date, first Survey, 2nd Feb 1882 Last Survey, 5th Feb 1883
(2 months) Tons 1302
Tons 8194

Made at
Middlesbrough
Do
Horse Power 115

Built at Middlesbrough When built 1882
By whom made Westgarth Eng Co 1882
By whom made Do when made Do
Owners A. Evans & Co Port belonging to London

NES, &c.—

of Engines Compound inverted Surface condensing
of Cylinders 28 - 54 Length of Stroke 36 No. of Rev. per min 840 Point of Cut off, High Pressure $\frac{1}{2}$ stroke Low Pressure $\frac{1}{2}$ stroke
of Screw shaft 9 $\frac{1}{2}$ Diameter of Tunnel shaft 9" Diameter of Crank shaft journals $9\frac{3}{4}$ Diameter of Crank pin $9\frac{3}{4}$ size of Crank webs $11\frac{1}{2}$
of screw 13.3 Pitch of screw 13.6 to 13.0 No. of blades None state whether moveable No total surface 465 sq ft
Feed pumps Two diameter of ditto $3\frac{1}{2}$ Stroke 20 Can one be overhauled while the other is at work Yes
Bilge pump Two diameter of ditto $3\frac{1}{2}$ Stroke 20 Can one be overhauled while the other is at work Yes
do they pump from From fore hold, after bulk, ballast tanks - engine room
Donkey Engines Two Size of Pumps 60ins x 8 ins Where do they pump from Large tank from ballast tanks, sea - engine room Small tank from sea, bottom fore hold, after bulk
the bilge suction pipes fitted with roses Yes Are the roses always accessible Yes Are the sluices on Engine room bulkheads always accessible Yes
bilge injections 1 and sizes $3\frac{1}{2}$ Are they connected to condenser, or to circulating pump Circulating pump
the pumps worked By two connected to crosshead on low pressure piston rod
connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Stop valves - cocks
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
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
pipes are carried through the bunkers None How are they protected ✓
pipes, cocks, valves, and pumps in connection with the machinery accessible at all times Yes
pipes, cocks, valves, and valves arranged so as to prevent an unintentional connection between the sea and the bilges Yes
are stern tube, propeller, screw shaft, and all connections examined in dry dock New
crew shaft tunnel watertight Watertight and fitted with a sluice door Yes worked from Platform on engine room

ERS, &c.—

of Boilers One Description Cylindrical Horizontal Multistage
g Pressure 80 lbs Tested by hydraulic pressure to 160 lbs Date of test 21.11.82 Certificate No 841
tion of superheating apparatus or steam chest None

ch boiler be worked separately ✓ Can the superheater be shut off and the boiler worked separately —
square feet of fire grate surface in each boiler 49.89 Description of safety valves Spring loaded by Mr. Bailey
each boiler Two area of each valve 12.56 Are they fitted with easing gear Yes
safety valves to superheater ✓ area of each valve ✓ are they fitted with easing gear ✓
st distance between boilers and bunkers or woodwork About 10 ft between boiler shell - bunker casing
er of boilers 11.6 Length of boilers 10.3 description of riveting of shell long. seams All stays abutted seam. seams Double
ess of shell plates 1" diameter of rivet holes 1/8 whether punched or drilled Punched pitch of rivets 4/8
f plating Stays 11/16 in wide percentage of strength of longitudinal joint 1/2 - 1" working pressure of shell by rules 53.5 lbs
f manholes in shell 16 x 12 size of compensating rings 6 x 1"
f Furnaces in each boiler Three outside diameter 3.4" length, top 6 ft 4 in straight 9.2
ess of plates 17/32 description of joint 1/8 in flat stays if rings are fitted Bottom stiffened greatest length between rings 6.4
ng pressure of furnace by the rules 99.9 lbs
ate fastening chamber plating, thickness, sides 1/2 back 1/2 top 1/2
f stays to ditto — sides 9 x 9 back 9 x 9 top Round top
es are fitted with nuts or riveted heads Nuts working pressure of plating by rules 95 lbs
ter of stays at smallest part 13/16 effective working pressure of ditto by rules 89.2 lbs
lates in steam space, thickness 3/4 pitch of stays to ditto 15/2 x 15/2 how stays are secured Stays - washers
ng pressure by rules 84 lbs diameter of stays at smallest part 2 1/8 working pressure by rules 88 lbs
e plates at bottom, thickness 5/8 back plates, thickness 5/8 greatest pitch of stays 12 x 17/4 working pressure by rules 88 lbs

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|--|----------------|--------------------------------------|------------------------------------|--|--------------------------------|--------------------|---------------|
| Diameter of tubes | $3\frac{1}{2}$ | pitch of tubes | $4\frac{3}{4} \times 4\frac{3}{4}$ | thickness of tube plates, front | $\frac{5}{8}$ | back | $\frac{5}{8}$ |
| How stayed | Say tubes | pitch of stays | 12×9 | width of water spaces | $1\frac{1}{4}$ between tubes | | |
| Diameter of Superheater or Steam chest | | length | | | | | |
| Thickness of plates | | description of longitudinal joint | | diameter of rivet holes | | pitch of rivets | |
| 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 | | | | How stayed | | | |
| Superheater or steam chest; how connected to boiler | | | | | | | |
| DONKEY BOILER - | Description | Vertical water tubes in Furnace | | | | | |
| Made at | Stockton | By whom made | Riley Bros | when made | 4.11.82. | No. of Certificate | 836 |
| Where fixed | In Stockdale | working pressure | 105 lbs | Tested by hydraulic pressure to | 130 lbs | area of each | 11.016 |
| Fire grate area | 21.64 | Description of safety valves | Direct loaded Dead weight | No. of safety valves | One | | |
| If fitted with easing gear | Gas | | | If steam from main boilers can enter the donkey boiler | No | | |
| Diameter of donkey boiler | 6.0 | length | 11.0 | description of riveting | Long seams, lap, double rivets | | |
| Thickness of shell plates | $\frac{7}{16}$ | diameter of rivet holes | $\frac{13}{16}$ | whether punched or drilled | Punched | | |
| pitch of rivets | $2\frac{1}{4}$ | lap of plating | $4\frac{1}{4}$ | per centage of strength of joint | 70-4 | | |
| thickness of crown plates | $\frac{7}{16}$ | stayed by | Six stays $1\frac{1}{2}$ dia | | | | |
| Diameter of furnace, top | 5.0 | bottom | 5.5 | length of furnace | 4.5 | | |
| thickness of plates | $\frac{7}{12}$ | description of joint | Gap Single twisted | | | | |
| thickness of furnace crown plates | $\frac{7}{16}$ | stayed by | Six stays $1\frac{1}{2}$ dia | | | | |
| Working pressure of shell by rules | 66 lbs | working pressure of furnace by rules | 64 lbs by 8000 rule | | | | |
| diameter of uptake | 15" | thickness of plates | $\frac{7}{16}$ | thickness of water tubes | $\frac{5}{8}$ | | |

The foregoing is a correct description,

The foregoing is a correct description,
M. & J. Marshall - Manufacturers of Sargents - Main Dealer only

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

Material & workmanship good
The furnace crown plates, back tube plates & combustion
chamber plating of main boiler are of Steel manufactured
by the Steel City of Scotland
The Machinery & Boilers are in good order & safe
working condition - in my opinion eligible for the
notification **L. M. C. 1. 83** in the Rochester Book.

The amount of Entry Fee £ 2: received by me,

Special 11. . . . £ 17 : 5 : ,

To be sent as per margin.

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

Committee's Minute

Friday, 12th January 1883.

Robert Edmund Taylor & Son Printers, 19, Old Street, Goswell Road, London, E.C.