

# REPORT ON MACHINERY.

86B  
No. in Survey held at Ascarshamn Date, first Survey 5<sup>th</sup> May 1883 Last Survey 25<sup>th</sup> Apr 1884  
Book. on the S/S Victoria Tons 760/1887  
Master Julius Svendsen Built at Ascarshamn When built 1883-84  
Engines made at Ascarshamn By whom made Gustaf Tillberg when made 1883-84  
Milers made at d<sup>te</sup> By whom made d<sup>te</sup> when made d<sup>te</sup>  
Registered Horse Power 100 Owners Anton Larsen Naur Port belonging to Kragerø

GINES, &c.—  
Description of Engines Compound with surface condenser  
Diameter of Cylinders 22 1/2 x 42" Length of Stroke 28" No. of Rev. per minute 80 Point of Cut off, High Pressure 0.5 Low Pressure 0.5  
Diameter of Screw shaft 7 1/2 Diameter of Tunnel shaft 7 1/2 Diameter of Crank shaft journals 7 1/2 Diameter of Crank pin 7 1/2 size of Crank webs 10 x 5"  
Diameter of screw 10-9" Pitch of screw 12' No. of blades 4 state whether moveable No total surface 115 sq ft  
No. of Feed pumps 2 diameter of ditto 3 Stroke 17 Can one be overhauled while the other is at work Yes  
No. of Bilge pumps 1 diameter of ditto 3 Stroke 17 Can one be overhauled while the other is at work Yes  
Where do they pump from each compartment  
No. of Donkey Engines 2 Size of Pumps 5 x 8" 5 1/2 x 2 1/4 Where do they pump from the larger from water tanks and  
each compartment, the smaller for feeding boiler and pumping to deck  
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 1 and sizes 6 1/2 Are they connected to condenser, or to circulating pump to circulating pump  
How are the pumps worked by levels from the Main Engine  
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 1884  
Is the screw shaft tunnel watertight Yes and fitted with a sluice door Yes worked from Main deck

BOILERS, &c.—  
Number of Boilers 1 Description Horizontal Multitubular  
Working Pressure 75 lbs Tested by hydraulic pressure to 150 lbs Date of test 4<sup>th</sup> February 1884  
Description of superheating apparatus or steam chest Cylindrical  
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 50 sq ft Description of safety valves 2 forms Patent Spring  
No. to each boiler 2 area of each valve 33.18 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 4"  
Diameter of boilers 12'-2" Length of boilers 10'-9" description of riveting of shell long. seams double butt straps circum. seams double laps  
Thickness of shell plates 1 3/16 diameter of rivet holes 7/8 whether punched or drilled drilled pitch of rivets 2 1/4  
Thickness of plating 5/16 per centage of strength of longitudinal joint 62 working pressure of shell by rules 79  
Size of manholes in shell 16" x 10" size of compensating rings 3 1/2 x 1"  
No. of Furnaces in each boiler 3 outside diameter 32" length, top 8" bottom 10"  
Thickness of plates 7/2 description of joint single lap if rings are fitted Yes greatest length between rings 3'-4  
Working pressure of furnace by the rules 211 lbs  
Combustion chamber plating, thickness, sides 9/16 back 9/16 top 9/16  
Pitch of stays to ditto, sides 9/16 back 9/16 top 9/16  
If stays are fitted with nuts or riveted heads riveted heads working pressure of plating by rules 81 lbs  
Working pressure of ditto by rules 81 lbs  
Shipping diameter of stays at smallest part 1 1/4 pitch of stays to ditto 5/8 how stays are secured double Nuts and Washers  
End plates in steam space, thickness 5/8 diameter of stays at smallest part 2 1/4 working pressure by rules 99 lbs  
Working pressure by rules 82 lbs Back plates, thickness 5/8 greatest pitch of stays 9/16 working pressure by rules 110 lbs  
Front plates at bottom, thickness 5/8



Diameter of tubes  $3\frac{1}{2}$  pitch of tubes  $4\frac{7}{8}$  thickness of tube plates, front  $\frac{1}{16}$  back  $\frac{1}{16}$   
How stayed *Stay tubes* pitch of stays  $14\frac{1}{8}$  width of water spaces  $1\frac{1}{8}$   
Diameter of Superheater or Steam chest  $4'-6"$  length  $4'-6"$   
Thickness of plates  $\frac{3}{16}$  description of longitudinal joint *Single Lap joint* diameter of rivet holes  $\frac{7}{8}$  pitch of rivets  $2"$   
Working pressure of shell by rules  $97\text{ lbs}$  Diameter of flue — thickness of plates —  
If stiffened with rings — distance between rings — Working pressure by rules —  
End plates of ~~superheater~~ steam chest; thickness  $\frac{5}{8}$  How stayed *4 pieces  $1\frac{3}{4}"$  Stays*  
Superheater or steam chest; how connected to boiler *riveted*

DONKEY BOILER— Description *Vertical with Galloway tubes*  
Made at *Oscarshamn* By whom made *Gustaf Tillberg* when made *1884*  
Where fixed *in Engine room* working pressure *70 lbs* Tested by hydraulic pressure to *150 lbs* No. of Certificate  
Fire grate area *13 sq. ft.* Description of safety valves *Common* No. of safety valves *2* area of each *4.9*  
If fitted with easing gear *No* If steam from main boilers can enter the donkey boiler *Yes*  
Diameter of donkey boiler *4'-3"* length *8'* description of riveting *Single Lap joint*  
thickness of shell plates  $\frac{7}{16}$  diameter of rivet holes  $\frac{7}{8}$  whether punched or drilled *punched*  
pitch of rivets  $2"$  lap of plating  $2\frac{3}{4}$  per centage of strength of joint  $56$   
thickness of crown plates  $\frac{1}{2}$  stayed by *the Uptake and 4 pieces  $1\frac{1}{2}"$  Stays*  
Diameter of furnace, top *4'* bottom *4'* length of furnace *4'-7"*  
thickness of plates  $\frac{7}{16}$  description of joint *Single Lap joint*  
thickness of furnace crown plates  $\frac{1}{2}$  stayed by *the Uptake and 4 pieces  $1\frac{1}{2}"$  Stays*  
Working pressure of shell by rules  $72\text{ lbs}$  working pressure of furnace by rules  $77\text{ lbs}$   
diameter of uptake  $12"$  thickness of plates  $\frac{9}{16}$  thickness of water tubes  $\frac{5}{16}$

The foregoing is a correct description,

Manufacturer.

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

*The machinery is of a good construction and the quality of the materials and workmanship good.*

*The engines and boilers are examined by me from the commencement of the work until the final test of the machinery under steam and found to be at this date viz 25<sup>th</sup> February 1884 in good order and safe working condition and in my opinion merits the favorable consideration of the Committee to be notified in the Register Book L.M.C.*

*It is submitted that this vessel is eligible to have the notification &c. L.M.C. recorded M 15/4/84*

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

Special .. £ 15 : :

Certificate (if required) .. £ : 2 : 6 April 5 1884

To be sent as per margin.

(Travelling Expenses, if any, £ )

Committee's Minute

TUESDAY 15 APRIL 1884 18

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