

# REPORT ON MACHINERY.

Port of LondonNo. in Survey held at LondonDate, first Survey 15<sup>th</sup> March Last Survey 8<sup>th</sup> April 1892

Reg. Book.

(Number of Visits 4)on the S. S. "New Amsterdam"Tons <sup>Gross</sup> 103  
<sub>Net</sub> 53When built 1887-6Master                      Built at Newcastle By whom built Swan & HunterEngines made at Vauxhall By whom made Alex Wilson & Co when made 1892Boilers made at Gateshead By whom made Black Hawthorn & Co when made 1887Registered Horse Power 25 Owners Sproston Son & CoPort belonging to Georgetown

Nom. Horse Power as per Section 28

4-1 For River purposes only 6,91 + LMC 6,91. S. S. dem 1890

ENGINES, &c.— Description of Engine Twin Screw Inverted Compound No. of Cylinders 2

Diameter of Cylinders Two at 19" 18" Length of Stroke 12 Revolutions per minute 200 Diameter of Screw shaft as per rule 3.39  
as fitted 3.25

Diameter of Tunnel shaft as fitted Diameter of Crank shaft journals 3 3/4 Diameter of Crank pin 3 3/4 Size of Crank webs 4 1/2 x 2 1/2

Diameter of screw 4' 4" Pitch of screw 6' 6" No. of blades 4 State whether moveable No Total surface 6 sq ft

No. of Feed pumps one Diameter of ditto 2" Stroke 2" Can one be overhauled while the other is at work Yes

No. of Bilge pumps one Diameter of ditto 2" Stroke 2" Can one be overhauled while the other is at work Yes

No. of Donkey Engines one Sizes of Pumps 1/2 diam 4" stroke No. and size of Suctions connected to both Bilge and Donkey pumps steam cyl 3" diam.

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                     ) Total Heating Surface of Boilers                     

No. and Description of Boilers                      Working Pressure 100 Tested by hydraulic pressure to                     

Date of test                      Can each boiler be worked separately                      Area of fire grate in each boiler                      No. and Description of safety valves to                     

Each boiler                      Area of each valve                      Pressure to which they are adjusted                      Are they fitted                     

With easing gear                      Smallest distance between boilers or uptakes and bunkers or woodwork                      Mean diameter of boilers                     

Length                      Material of shell plates                      Thickness                      Description of riveting: circum. seams                      long. seams                     

Diameter of rivet holes in long. seams                      Pitch of rivets                      Lap of plates or width of butt straps                     

Per centages of strength of longitudinal joint                      Working pressure of shell by rules                      Size of manhole in shell                     

Size of compensating ring                      No. and Description of Furnaces in each boiler                      Material                      Outside diameter                     

Length of plain part                      Thickness of plates                      Description of longitudinal joint                      No. of strengthening rings                     

Working pressure of furnace by the rules                      Combustion chamber plates: Material                      Thickness: Sides                      Back                      Top                      Bottom                     

Pitch of stays to ditto: Sides                      Back                      Top                      If stays are fitted with nuts or riveted heads                      Working pressure by rules                     

Material of stays                      Diameter at smallest part                      Area supported by each stay                      Working pressure by rules                      End plates in steam space:                     

Material                      Thickness                      Pitch of stays                      How are stays secured                      Working pressure by rules                      Material of stays                     

Diameter at smallest part                      Area supported by each stay                      Working pressure by rules                      Material of Front plates at bottom                     

Thickness                      Material of Lower back plate                      Thickness                      Greatest pitch of stays                      Working pressure of plate by rules                     

Diameter of tubes                      Pitch of tubes                      Material of tube plates                      Thickness: Front                      Back                      Mean pitch of stays                     

Pitch across wide water spaces                      Working pressures by rules                      Girders to Chamber tops: Material                      Depth and                     

Thickness of girder at centre                      Length as per rule                      Distance apart                      Number and pitch of Stays in each                     

Working pressure by rules                      Superheater or Steam chest; how connected to boiler                      Can the superheater be shut off and the boiler worked                     

separately                      Diameter                      Length                      Thickness of shell plates                      Material                      Description of longitudinal joint                      Diam. of rivet                     

holes                      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                     

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LON696-0208



**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
No. of safety valves	Area of each	Pressure to which they are adjusted	If fitted with easing gear
enter the donkey boiler	Diameter of donkey boiler	Length	Material of shell plates
Description of riveting long seams	Diameter of rivet holes	Whether punched or drilled	Pitch of rivets
Lap of plating	Per centage of strength of joint	Thickness of shell crown plates	Radius of do.
Dia. of stays.	Diameter of furnace Top	Length of furnace	Thickness of furnace plates
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:—

The foregoing is a correct description,

(Sd) Alex. Wilson R<sup>e</sup> (Sd) per au) Manufacturer of the engines

**General Remarks** (State quality of workmanship, opinions as to class, &c. The air and circulating pumps for the two engines are worked by a separate compound engine. The engines have been built under special Survey & the material & workmanship is good & in my opinion the vessel will be eligible for the record & N. B. with a date when the engines have been fitted on board. They are being sent to Demerara & it is submitted that the local surveyor be instructed to see them fitted on board.

(Signed) C. E. Stromeyer

Certificate (if required) to be sent to

The amount of Entry Fee..	£	:	:	When applied for,
Special .. .. .	£	:	:	18.....
Donkey Boiler Fee .. .. .	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	18.....

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

Committee's Minute

Assigned



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