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REPORT ON MACHINERY.

No. _____ Received at London Office 9/12/1895

No. in Survey held at London Date, first Survey 9 Nov Last Survey 5 Dec 1895

Reg. Book. _____ (Number of Vistas) 8

on the S. S. Glen Halme Tons _____

Master W. Spence Built at Hartlepool By whom built Denton Gray & Co When built 1870

Engines made at Hartlepool By whom made F. Richardson when made 1878

Boilers made at Hartlepool By whom made do when made 1878

Registered Horse Power 96 Owners Kine Bros. Port belonging to Maryport

ENGINES, &c.

Description of Engines Inverted directacting compound

Diameter of Cylinders 27 & 50 Length of Stroke 30 No. of Rev. per minute _____ Point of Cut off, High Pressure 1/2 Low Pressure 1/2

Diameter of Screw shaft not known Diam. of Tunnel shaft 7 5/8 Diam. of Crank shaft journals 9" Diam. of Crank pin 9 1/4" size of Crank webs 10 x 5 1/8

Diameter of screw not known Pitch of screw do No. of blades do state whether moveable do total surface do

No. of Feed pumps two diameter of ditto 3 3/8 Stroke 15 1/4 Can one be overhauled while the other is at work yes

No. of Bilge pumps two diameter of ditto 2 3/8 Stroke 20 Can one be overhauled while the other is at work yes

Where do they pump from Fore hold, under boilers and engine room bilges

No. of Donkey Engines two Size of Pumps 6x10 & 3 1/2 x 6 Where do they pump from same as above & from hotwell & sea. Ballast donkey pumps from fore & aft tanks

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 no

No. of bilge injections one and sizes 4 Are they connected to condenser, or to circulating pump circulating pump

How are the pumps worked levers

Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates no Are the discharge pipes above or below the deep water line below

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 not known

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

Is the screw shaft tunnel watertight apparently and fitted with a sluice door yes worked from upper platform

BOILERS, &c.

Number of Boilers one Description Cylindrical return Whether Steel or Iron not known

Working Pressure 75 lbs. Tested by hydraulic pressure to not tested Date of test _____

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 60 Description of safety valves spring No. to each boiler two

Area of each valve 14' 2" 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 12" Diameter of boilers 154"

Length of boilers 10' 3" description of riveting of shell long. seams double riv Butt circum. seams d. & lap Thickness of shell plates 1"

Diameter of rivet holes not known whether punched or drilled not known pitch of rivets 4 1/2" Lap of plating 8"

Percentage of strength of longitudinal joint probably 75 working pressure of shell by rules 92 (probably) size of manholes in shell none

Size of compensating rings _____ No. of Furnaces in each boiler four

Outside diameter 36" length, top 7' bottom 9' thickness of plates 1/2 & 9/16 description of joint lap riveted if rings are fitted partial

Greatest length between rings 7' working pressure of furnace by the rules 90 combustion chamber plating, thickness, sides 1/2 back 1/2 top 1/2

Pitch of stays to ditto, sides 7 x 7 1/2 back 8 x 7 1/2 top 9 x 9 1/2 If stays are fitted with nuts or riveted heads both riveted heads working pressure of plating by rules 85 Diameter of stays at smallest part 1 1/2 x 1 1/4 working pressure of ditto by rules 75 end plates in steam space, thickness 3/4"

Pitch of stays to ditto 17 x 15 how stays are secured double nuts & washers working pressure by rules 80 diameter of stays at smallest part 2 1/2 outside diam. working pressure by rules 113 Front plates at bottom, thickness 5/8 Back plates, thickness 5/8

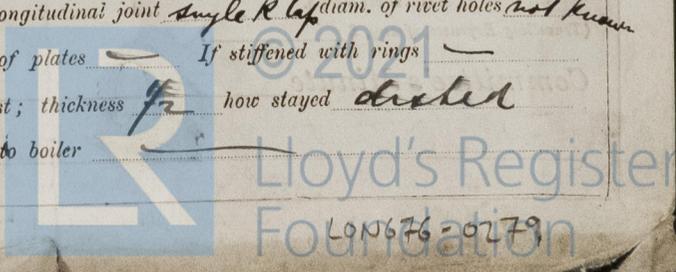
Greatest pitch of stays 12" working pressure by rules 83 Diameter of tubes 3" pitch of tubes 4 1/2 thickness of tube plates, front 3/4 back 5/8 how stayed stay tubes pitch of stays 13 1/2 width of water spaces 12"

Diameter of Superheater or Steam chest 40" length 4 1/2 thickness of plates 3/8 description of longitudinal joint single lap diam. of rivet holes not known

Pitch of rivets 2" working pressure of shell by rules 100 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 1/2 how stayed drilled

Superheater or steam chest; how connected to boiler _____



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DONKEY BOILER— Description *Vertical cylindrical*
 Made at *not known* by whom made *do* when made *do* where fixed *on deck*
 Working pressure *40 lbs* tested by hydraulic pressure to *not tested* No. of Certificate *—* fire grate area *12 1/2 ft* description of safety valves *spring* No. of safety valves *one* area of each *7 1/2 sq in* if fitted with easing gear *yes* if steam from main boilers can enter the donkey boiler *no* diameter of donkey boiler *63"* length *11 ft* description of riveting *single rivet lap*
 Thickness of shell plates *7/16* diameter of rivet holes *not known* whether punched or drilled *do* pitch of rivets *2"* lap of plating *2 1/4*
 per centage of strength of joint *about 50* thickness of crown plates *3/8* stayed by *uplake & 4 stays*
 Diameter of furnace, top *48"* bottom *48"* length of furnace *5 1/2'* thickness of plates *3/8* description of joint *lap single rivet about 50*
 Thickness of furnace crown plates *3/8* stayed by *uplake & 4 stays* working pressure of shell by rules *50*
 Working pressure of furnace by rules *62* diameter of uptake *14"* thickness of plates *3/8* thickness of water tubes *9" diam*

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 old crankshaft which was broken in two has been replaced by a new one marked LLOYDS NO 1141 & N. See attached certificate. A new low pressure piston ring and new thrust rings have been fitted. Examined cylinders slide valves, safety valves pumps & funnel shafting & found them good. Examined boiler & found it in a good condition. This properly secured.*)

*The safety valves were set to blow at 75 lbs.
 The request for classification was made by Mr. Bradie on the 27th November.*

As far as seen the machinery of this vessel is in a safe working condition and eligible in my opinion to have the notification B & M. S. 12. 85 recorded in the register book as soon as the sea-cocks etc have been examined in dry dock & found satisfactory and provided an unused water service cock be removed from the ship's bottom.

It is submitted that this vessel will be eligible for the notification of B & M. S. 12. 85 when examined in dry dock. The sea-cocks etc have been found satisfactory service cock being removed.

The amount of Entry Fee ... £ : : received by the
 Special ... £ 5 : 5 :
 Donkey Boiler Fee ... £ : :
 Certificate (if required) ... £ : :
 To be sent as per margin.
 (Travelling Expenses, if any, £)

C. J. Brownie,
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

K. W. Owners 22 15/1/86

