

REPORT ON MACHINERY.

Port of *Hull*

No. in Survey held at *Hull*

Date, first Survey *June 27th 90* Last Survey *Jan 30th 18 91*

g. Book. *S.* on the *Steam Trawler "Majestic"*

(Number of Visits *20*)

Registered *Master* Built at *Beverley* By whom built *Cochrane Cooper & Schofield* When built *1890*

Engines made at *Hull* By whom made *C D. Holmes & Co* when made *1890*

Valers made at *Hull* By whom made *C D. Holmes & Co* when made *1890*

Registered Horse Power *50* Owners *Kelsall Bros* Port belonging to *Hull*

GINES, &c.—

Description of Engines *Triple Compound Inverted Direct Acting* No. of Cylinders *Three*
 diam. of Cylinders *12 1/2 - 19 1/2 - 31 1/2* Length of Stroke *22 1/2* Rev. per minute *112* Point of Cut off, High Pressure *62* Low Pressure *65*
 diameter of Screw shaft *6 3/4* Diam. of Tunnel shaft *6"* Diam. of Crank shaft journals *6 1/2* Diam. of Crank pin *6 1/2* size of Crank webs *4 3/8 x 7 1/4*
 diameter of screw *7 - 9"* Pitch of screw *10-3 - 11-10 1/2* No. of blades *Four* state whether moveable *No* total surface *23.75 sq ft*
 No. of Feed pumps *One* diameter of ditto *1 3/4* Stroke *22 1/2* Can one be overhauled while the other is at work ☒
 No. of Bilge pumps *One* diameter of ditto *2 1/8* Stroke *22 1/2* Can one be overhauled while the other is at work ☒
 Where do they pump from *Eng Rm Bilge, Hold*
 No. of Donkey Engines *One Duplex* Size of Pumps *2 1/2 x 2 1/4 x 4"* Where do they pump from *Bilge Sea Hotwell & Boiler*
 Discharge to *Boiler, Condenser, Deck & Sea, 3" Injector with suction in Eng Rm Discharge on 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 ☒
 No. of bilge injections *One* and sizes *2 3/4* Are they connected to condenser, or to circulating pump *Pump*
 How are the pumps worked *Direct from Piston rod crosshead*
 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 *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 *Fore hold Suction* How are they protected *Wood cased*
 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 *Now new Launched 28/10/90*
 Is the screw shaft tunnel watertight ☒ and fitted with a sluice door ☒ worked from ☒

BOILERS, &c.—

No. of Boilers *One* Description *Cyl. Multitubular* Material *Steel* Letter (for record) *S*
 Working Pressure *150 lbs* Tested by hydraulic pressure to *300 lbs* Date of test *29/11/90*
 Description of superheating apparatus or steam chest ☒
 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 *one* boiler *29.08* Description of safety valves *Spring loaded* No. to *each* boiler *Two*
 Area of each valve *3.97* Are they fitted with easing gear *Yes* No. of safety valves to superheater ☒ area of each valve ☒
 Are they fitted with easing gear *Yes* Smallest distance between boilers and bunkers or woodwork *8 inches* Diameter of boilers *10'-6"*
 Length of boilers *9'-4 1/2* description of riveting of shell long. seams *dbl strap dbl rivette circum. seams* *dbl riv lap* Thickness of shell plates *14/16*
 Diameter of rivet holes *1 1/2* whether punched or drilled *drilled* pitch of rivets *6 7/8* Lap of plating *11 3/4*
 Percentage of strength of longitudinal joint *82.2 %* working pressure of shell by rules *150 lbs* size of manholes in shell *16 x 12"*
 Size of compensating rings *6 x 14/16* No. of Furnaces in each boiler *Two* Description of Furnaces *Holmes Patent*
 Outside diameter *38"* length *6'-0" top 6'-7" bottom* thickness of plates *9/16* description of joint *Welded* if rings are fitted *Yes*
 Greatest length between rings *20* working pressure of furnace by the rules *150 lbs* combustion chamber plating, thickness, sides *7/32* back *7/32* top *7/32*
 Pitch of stays to ditto, sides *7 1/2* back *7 9/16* top *7 1/16* If stays are fitted with nuts or riveted heads *nuts* working pressure of plating by rules *150 lbs*
 Diameter of stays at smallest part *1 1/4* working pressure of ditto by rules *176 lbs* end plates in steam space, thickness *1"*
 Pitch of stays to ditto *15 3/8* how stays are secured *double nuts* working pressure by rules *152 lbs* diameter of stays at smallest part *2 9/16*
 working pressure by rules *152 lbs* Front plates at bottom, thickness *3/4* Back plates, thickness *3/4*
 Greatest pitch of stays *14* working pressure by rules *150 lbs* Diameter of tubes *3 1/2* pitch of tubes *4 3/16* thickness of tube plates, front *3/4* back *3/4* how stayed *Stay tubes* pitch of stays *9 1/2* width of water spaces *10"*
 Diameter of Superheater or Steam chest ☒ length ☒ thickness of plates ☒ description of longitudinal joint ☒ diam. 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 *None fitted*

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:— *One pair bottom end bolts, one pair top end bolts
One pair main bearing bolts 1 set of Coupling bolts 1 set each of feed & barge
pump valves*

The Vessel complete with Masts & Sails as a Trawler

The foregoing is a correct description,

Charles D. Atkinson Manufacturer.

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

*The Machinery & Boiler of this Steam Trawler have been
constructed under Special Survey, and placed on board in
accordance with the Rules of the Society. They are now in
my opinion in safe working condition and the case is
submitted for the notification of + L.M.C. 1-90 in the Register-Boat.*

*It is submitted that this vessel is
eligible to have + L.M.C. 1-91 recorded*

*W.A.
2-2-91*

The amount of Entry Fee ... £ 1 : - : - received by me,

Special ... £ 8 : - : -

Donkey Boiler Fee ... £ - : - : -

Certificate (if required) ... £ - : - : -

To be sent as per margin.

(Travelling Expenses, if any, £

Committee's Minute

+ L.M.C. 1-91

Henry S. Johnston

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