

REPORT ON MACHINERY.

8035

6 NOV 91

No. 8035 Port of Hull
 No. in Survey held at Beverly & Hull Date, first Survey Mar 4th Last Survey 1891
 Reg. Book. 87 on the Iron Steam Trawler Jasper (Number of Visits 1)
 Master Beverly Built at Beverly By whom built Cochrane Cooper & Schjeld Tons { Gross 156 Net 61
 Engines made at Hull By whom made Amos Smith When built 1891
 Boilers made at Hull By whom made Amos Smith when made 1891
 Registered Horse Power 45 1/2 Owners Kingston Steam Trawling Co Port belonging to Hull

ENGINES, &c.—

Description of Engines Compound Inverted Direct Acting No. of Cylinders two
 Diam. of Cylinders 16" x 32" Length of Stroke 22" Rev. per minute 104 Point of Cut off, High Pressure .6 Low Pressure .6
 Diameter of Screw shaft 6 1/2" Diam. of Tunnel shaft 6 1/4" Diam. of Crank shaft journals 6 1/2" Diam. of Crank pin 6 1/2" size of Crank webs 9 1/2" x 4 1/2"
 Diameter of screw 4.9" Pitch of screw 11.6" No. of blades 4 state whether moveable No total surface 19.29 sq ft
 No. of Feed pumps One diameter of ditto 2 1/2" Stroke 12" Can one be overhauled while the other is at work -
 No. of Bilge pumps One diameter of ditto 2 1/2" Stroke 12" Can one be overhauled while the other is at work -
 Where do they pump from Engine room Bilge & hold
 No. of Donkey Engines One Size of Pumps 2 3/4" x 4" duplex Where do they pump from Bilge hold Sea & Hotwell
Discharges to Bilge Condenser back & overboard. Also 3" Gector with suction in the Engine room Bilge & 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 3" Are they connected to condenser, or to circulating pump Circulating Pump
 How are the pumps worked By rocking levers from forward Engine piston rod cross head
 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 Suction to forward How are they protected Wood cased
 Are all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times Yes in Engine room
 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 how new Launched 22 Sept 1891
 Is the screw shaft tunnel watertight - and fitted with a sluice door - worked from -

OILERS, &c.—

No. of Boilers One Description Cylindrical Invert Material Steel Letter (for record) S
 Working Pressure 110 lbs Tested by hydraulic pressure to 220 lbs Date of test 22 Sept 1891
 Description of superheating apparatus or steam chest None fitted
 Can each boiler be worked separately - Can the superheater be shut off and the boiler worked separately -
 Area of square feet of fire grate surface in each boiler 30.53 sq ft Description of safety valves Spring loaded No. to each boiler two
 Area of each valve 7.07 sq in 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 6" Diameter of boilers 10' 9"
 Length of boilers 9' 6" description of riveting of shell long. seams all staggered circum. seams all in lap Thickness of shell plates 23/32"
 Diameter of rivet holes 29/32" whether punched or drilled drilled pitch of rivets 4 7/8" Lap of plating 9/4"
 Percentage of strength of longitudinal joint 81.4% working pressure of shell by rules 113 lbs size of manholes in shell 16" x 12"
 No. of compensating rings 2 No. of Furnaces in each boiler two Description of Furnaces Plain
 Inside diameter 44" length 6' 7" thickness of plates 9/16" description of joint Welded if rings are fitted No
 Greatest length between rings - working pressure of furnace by the rules 123 lbs combustion chamber plating, thickness, sides 1/2" back 1/2" top 1/2"
 Pitch of stays to ditto, sides 8" back 8" top 8" If stays are fitted with nuts or riveted heads Nuts working pressure of plating by rules 120 lbs Diameter of stays at smallest part 9/8" area working pressure of ditto by rules 123 lbs end plates in steam space, thickness 14/16"
 Pitch of stays to ditto 15" how stays are secured all nuts working pressure by rules 123 lbs diameter of stays at smallest part 3.03 area working pressure by rules 121 lbs Front plates at bottom, thickness 10/16" Back plates, thickness 10/16"
 Greatest pitch of stays 19 1/2" working pressure by rules 110 lbs Diameter of tubes 3 1/2" pitch of tubes 4 7/8" thickness of tube plates, front 10/16" back 11/16" how stayed lay tubes pitch of stays 9 3/4" 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

No Donkey Boiler

Made at _____ by whom made _____ when made _____ where fixed _____
 Working pressure _____ tested by hydraulic pressure to _____ No. of Certificate _____ fire grate area _____ description of _____
 valves _____ No. of safety valves _____ area of each _____ if fitted with easing gear _____ if steam from main boilers or _____
 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:— *Two top end bolts. Two bottom end bolts. Two main bearing bolts. One set Coupling bolts. One set Dead pump valves. One set Bilge pump valves. Safety Valve spring.*

The vessel efficient with masts and sails as a Hawker.

The foregoing is a correct description,

Manufacturer.

Amos Smith per Th. Rose

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

The Machinery and Boiler of this Steam Hawker have been constructed under Special Survey & placed on board in accordance with The Society's Rules. They are now in my opinion in safe working condition and the case is respectfully submitted for the publication + L M C. 10.91. in The Register Book.

Machinery Certificate written.

Certificate (if required) to be sent to

The Surveyor. Here

The amount of Entry Fee .. £ 1 : 0 :

Special .. £ 0 : 0 :

Donkey Boiler Fee .. £ :

received by me,

9.11.18 91

(Travelling Expenses, if any, £)

Committee's Minute

TUES. 10 NOV 1891

+ L M C 10/91

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



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Foundation