

REPORT ON MACHINERY.

3987

No. 5987

Received at London Office MONDAY 30 AUGUST 1886

No. in Survey held at

Hull

Date, first Survey May 1st

Last Survey Aug 25th 1886

Reg. Book.

(Number of Visits 22)

121.83

on the Iron Screw Steamer Adventure (Trawler)

Tons 50.44

Master Gerard

Built at Hull

By whom built Cook Wilton & Gemmell

When built 1886

Engines made at Hull

By whom made Bailey & Leatham

when made 1886

Boilers made at Hull

By whom made Bailey & Leatham

when made 1886

Registered Horse Power 35

Owners Humble Steam Trawling Co Port belonging to Hull

ENGINES, &c.—

Description of Engines Compound Inverted Cylinders Direct Acting.

Diameter of Cylinders 15" x 29" Length of Stroke 21" No. of Rev. per minute 102 Point of Cut off, High Pressure 5/8 Low Pressure 1/2

Diameter of Screw shaft 5 3/8" Diam. of Tunnel shaft 5 1/2" Diam. of Crank shaft journals 5 3/8" Diam. of Crank pin 5 3/8" size of Crank webs 6 3/8" x 3 5/8"

Diameter of screw 7.3" Pitch of screw 9.6" to 10.6" No. of blades 4 state whether moreable No total surface 14 1/2 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 Delivery, Overboard.

No. of Donkey Engines one Size of Pumps 2 1/2" x 5" Where do they pump from Engine room bilge, Hold

to the Sea, Deliveries, Overboard, Deck, Boiler & Condenser.

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 1/2" Are they connected to condenser, or to circulating pump Circulating pump.

How are the pumps worked by rocking levers from after Engine 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

How are pipes 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 Now new, Launched 1st July 1886.

Is the screw shaft tunnel watertight No tunnel and fitted with a sluice door ✓ worked from ✓

BOILERS, &c.—

Number of Boilers one Description Circular Multitubular Whether Steel or Iron Steel.

Working Pressure 90 lbs Tested by hydraulic pressure to 180 lbs Date of test 24th June 1886

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 22 sq ft Description of safety valves Spring loaded No. to each boiler two

Area of each valve 5.94 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 12" Diameter of boilers 9.6"

Length of boilers 9.0" description of riveting of shell long. seams dble strap dble circum. seams dble riv lap Thickness of shell plates 19/32

Diameter of rivet holes 5/8" whether punched or drilled drilled pitch of rivets 3.875" Lap of plating 11"

Percentage of strength of longitudinal joint 76.5 working pressure of shell by rules 100 lbs size of manholes in shell 15" x 11"

No. of compensating rings 1.10" x 2.2" x 19/32" No. of Furnaces in each boiler two

Side diameter 2.10 1/2" length, top 6.0" bottom 6.5" thickness of plates 15/32" description of joint dble strap if rings are fitted No

Closest length between rings ✓ working pressure of furnace by the rules 95 lbs combustion chamber plating, thickness, sides 1/2" back 1/2" top 1/2"

Distance of stays to ditto, sides 9" back 9" top 9" If stays are fitted with nuts or riveted heads Nuts working pressure of plating by

rules 95 lbs Diameter of stays at smallest part 1 1/2" working pressure of ditto by rules 95 lbs end plates in steam space, thickness 1/16"

Distance of stays to ditto 13" how stays are secured dble nuts & wash working pressure by rules 100 lbs diameter of stays at

Smallest part 1 3/4" working pressure by rules 100 lbs Front plates at bottom, thickness 1/16" Back plates, thickness 1/16"

Closest pitch of stays working pressure by rules 90 lbs Diameter of tubes 3 1/2" pitch of tubes 14 1/2" thickness of tube

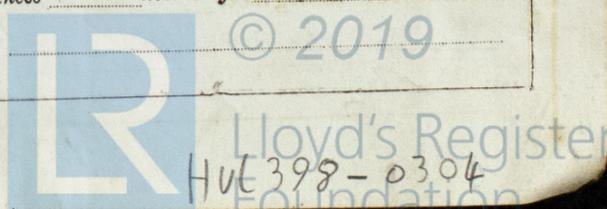
Thickness of plates, front 1/16" back 1/16" how stayed stay tubes pitch of stays 9" width of water spaces 1 1/2"

Diameter of Superheater or Steam chest length thickness of plates description of longitudinal joint diam. of rivet holes

No. 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 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:— *Two top end & two bottom end bolts. Two main bearing bolts. one set coupling bolts. one set feed pump & one set bilge pump valves.*

The vessel efficient with masts and sails as a trawler.

The foregoing is a correct description,

for *Daly & Latham* *Manufacturers.*
the shipman managing engine.

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

The Machinery and Boiler of this Steam Trawler built under Special Survey, are now in my opinion in safe working condition and the case is respectfully submitted as eligible for the notification L.M.C. 7-86 in the Register Book.

submitted that this vessel is eligible to have the notification L.M.C. 7-86 recorded.

30/8/86

[Large blue signature]

The amount of Entry Fee .. £ 1 : " : " received by me,
 Special £ 8 : " : "
 Donkey Boiler Fee £ " : " : "
 Certificate (if required) .. £ *Gratis* 26/7 1886
 To be sent as per margin.
 (Travelling Expenses, if any, £ _____)

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

Committee's Minute **TUESDAY 31 AUGUST 1886**
+ M.B.

