

# REPORT ON MACHINERY.

No. 5987

No. in Survey held at

Date, first Survey May 1<sup>st</sup>

Last Survey Aug 25<sup>th</sup> 1886

Reg. Book.

(Number of Visits 22)

121.83

on the

Iron Screw Steamer Adventure (Trawler)

Tons 50.44

Master

Built at

By whom built

Cook Wilton & Gemmell When built 1886

Engines made at

By whom made

Bailey & Leatham

when made

1886

Boilers made at

By whom made

Bailey & Leatham

when made

1886

Registered Horse Power

35

Owners

Humber 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

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 1<sup>st</sup> 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

24<sup>th</sup> 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

double strap double circum. seams

double riv lap

Thickness of shell plates

1/32"

Diameter of rivet holes

1/8"

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 1/32"

No. of Furnaces in each boiler

two

Inside diameter

2.10 1/2"

length, top

6.0"

bottom

6.5"

thickness of plates

1/32"

Description of joint

double strap

if rings are fitted

No

Test length between rings

✓

working pressure of furnace by the rules

95 lbs

combustion chamber plating, thickness, sides

1/2"

back

1/2"

top

Area 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

1/16"

Rules

95 lbs

Diameter of stays at smallest part

1 1/32"

working pressure of ditto by rules

93 lbs

end plates in steam space, thickness

1/16"

diameter of stays at

1/16"

Area of stays to ditto

13"

how stays are secured

double ends & wash

working pressure by rules

100 lbs

Front plates at bottom, thickness

1/16"

Back plates, thickness

1/16"

1/16"

Smallest part

1 1/32"

working pressure by rules

100 lbs

pitch of tubes

1 1/2"

thickness of tube

1/16"

pitch of tubes

1 1/2"

thickness of tube

1/16"

1/16"

Plates, front

1/16"

back

1/16"

how stayed

stay tubes

pitch of stays

9"

width of water spaces

1 1/4"

1/16"

1/16"

1/16"

1/16"

Diameter of Superheater or Steam chest

length

thickness of plates

Description of longitudinal joint

diam. of rivet holes

1/16"

1/16"

1/16"

1/16"

1/16"

1/16"

1/16"

No. of rivets

working pressure of shell by rules

100 lbs

diameter of flue

thickness of plates

If stiffened with rings

1/16"

1/16"

1/16"

1/16"

1/16"

1/16"

1/16"

1/16"

Distance between rings

working pressure by rules

100 lbs



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* *Baily & Latham* Manufacturer.  
*Chas Thompson Managing Engineer.*

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 7-86 recorded.*

*28/8/86*

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, £ \_\_\_\_\_)

Committee's Minute

TUESDAY 31 AUGUST 1886

*+ JMB*

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



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Foundation