

REPORT ON MACHINERY.

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7326 Intro No. 121

Survey held at *Hull*

Date, first Survey *Mar 13*

Received at London Office *THURS 24 JULY 1890*

Last Survey *Jun 24* 18*90*

(Number of Visits) *37*

Tons *139.32*

on the *Iron Steam Trawler "Dartmouth"*

Brooks Built at *Middlesbrough* By whom built *W. Harkiss & Son* When built *1890*

es made at *Glasgow* By whom made *W. King & Co* when made *1874*

made at *Glasgow* By whom made *W. King & Co* when made *1885*

ered Horse Power *40* Owners *Great Western S. S. Co* Port belonging to *Bristol*

ENGINES, &c.—

ption of Engines *Compound inverted direct acting*

ter of Cylinders *14* Length of Stroke *22* No. of Rev. per minute *15* Point of Cut off, High Pressure *15* Low Pressure *15*

ter of Screw shaft *6 1/2* Diam. of Tunnel shaft *6 1/4* Diam. of Crank shaft journals *6* Diam. of Crank pin *6* size of Crank webs *4 x 4*

ter of screw *4:6* Pitch of screw *9:0 to 4:0* No. of blades *4* state whether moveable *in* total surface *16:0*

f Feed pumps *One* diameter of ditto *2 1/2* Stroke *11* Can one be overhauled while the other is at work *—*

f Bilge pumps *One* diameter of ditto *2 1/2* Stroke *11* Can one be overhauled while the other is at work *—*

e do they pump from *Engine room bilge & hold*

f Donkey Engines *One* Size of Pumps *3 x 6* Where do they pump from *Engine room bilge*

td & Sea. Also 3" Ejector with suction in Engine room bilge and

charge on deck.

all the bilge suction pipes fitted with roses *Yes* Are the roses always accessible *Yes* Are the sluices on Engine room bulkheads always accessible *—*

f bilge injections *One* and sizes *3"* Are they connected to condenser, or to circulating pump *Circulating Pump*

are the pumps worked *By Rocking lever from After Engine piston rod cross head*

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

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*

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*

ut pipes are carried through the bunkers *Suction to Forward* How are they protected *Iron casing*

all pipes, cocks, valves, and pumps in connection with the machinery accessible at all times *Yes in Engine room*

the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges *Yes*

en were stern tube, propeller, screw shaft, and all connections examined in dry dock *Now new*

he screw shaft tunnel watertight *—* and fitted with a sluice door *—* worked from *—*

BOILERS, &c.—

number of Boilers *One* Description *Cylindrical built* Whether Steel or Iron *Iron*

working Pressure *45 lbs* Tested by hydraulic pressure to *150 lbs* Date of test/mark *No 1591 150 LBS W.E.R. 22.4.85*

cription of superheating apparatus or steam chest

each boiler be worked separately *—* Can the superheater be shut off and the boiler worked separately *—*

of square feet of fire grate surface in each boiler *—* Description of safety valves *Spring loaded* No. to each boiler *two*

ea of each valve *7.07* Are they fitted with easing gear *Yes* No. of safety valves to superheater *—* area of each valve *—*

they fitted with easing gear *—* Smallest distance between boilers and bunkers or woodwork *—* Diameter of boilers *—*

length of boilers *—* description of riveting of shell long. seams *—* circum. seams *—* Thickness of shell plates *—*

imeter of rivet holes *—* whether punched or drilled *—* pitch of rivets *—* Lap of plating *—*

percentage of strength of longitudinal joint *—* working pressure of shell by rules *—* size of manholes in shell *—*

se of compensating rings *—* No. of Furnaces in each boiler *two*

tside diameter *—* length, top *—* bottom *—* thickness of plates *—* description of joint *—* if rings are fitted *—*

reatest length between rings *—* working pressure of furnace by the rules *—* combustion chamber plating, thickness, sides *—* back *—* top *—*

itch of stays to ditto, sides *—* back *—* top *—* If stays are fitted with nuts or riveted heads *—* working pressure of plating by *—*

rules *—* Diameter of stays at smallest part *—* working pressure of ditto by rules *—* end plates in steam space, thickness *—*

itch of stays to ditto *—* how stays are secured *—* working pressure by rules *—* diameter of stays at *—*

smallest part *—* working pressure by rules *—* Front plates at bottom, thickness *—* Back plates, thickness *—*

reatest pitch of stays *—* working pressure by rules *—* Diameter of tubes *—* pitch of tubes *—* thickness of tube *—*

plates, front *—* back *—* how stayed *—* pitch of stays *—* width of water spaces *—*

diameter of Superheater or Steam chest *—* length *—* thickness of plates *—* description of longitudinal joint *—* diam. of rivet holes *—*

itch 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 *—*

24/7/90

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:— *The top end bolts, The bottom end bolts, The main
bearing bolts, One set coupling bolts, One set feed pump valves, One set of
Bilge pump valves.*

The vessel efficient with masts and sails as a Trawler.
The foregoing is a correct description,
Manufacturer. _____

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

*The Engines and Boiler of this Vessel were
formerly fitted on board The S. S. "Viking" No. 176 in the
Register Book and have been examined and overhauled as per
Bristol Machinery Report No 5133 and now placed on board the
Steam Trawler "Dartmouth" at this Port.*

*The Sea Connections Propeller & Thrust Chafing
Propeller, Stern tube, Stern bush, all Bilge, Feed and Main Steam
pipe fitted new. The Main Steam pipe tested by hydraulic pump
to 200 lbs per square inch as required. The Boiler examined under
Steam and the Safety valves set to 75 lbs per square inch. The
Engines tried at moorings and worked satisfactorily.*

*The Case is respectfully submitted In The Notice
L.N.C. 6.90 * N.B. 85 Engines made in 1874 in The Society
Register Book.*

*This submitted that this
vessel is eligible to have
L.N.C. 6.90 recorded, and the
records. Engines made in 74
Boiler made in 85 inserted
in the Register Book
J. Y. M.
24/2/90*

The amount of Entry Fee .. £ ✓ : : received by me.

Special .. £ 3 : ✓ : ✓

Donkey Boiler Fee .. £ ✓ : :

Certificate (if required) .. £ ✓ : :

To be sent as per margin.

(Travelling Expenses, if any, £ ✓)

Committee's Minute

TUES 29 JULY 1890

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

James Jones

L.N.C. 6/90

*Engines made in 1874
Boiler made in 1885*

MD3740/5

