

REPORT ON MACHINERY.

Port of Leith

Thurs. 23 JUL 1891

Received at London Office

No. 6414

Survey held at Kirkcaldy & Kinghorn

Date, first Survey 18th Sept. 1890 Last Survey 14th July 1891

g. Book.

(Number of Visits 36)

135

on the

S.S. Trawler "Faith"

Tons 46

Master M. Doig

Built at Kinghorn

By whom built John Scott & Co.

When built 1891

Engines made at Kirkcaldy

By whom made John Scott & Co.

when made 1891

Boilers made at Do

By whom made Do

when made 1891

Registered Horse Power 50

Owners Stephen Williamson Esq. & David Murray, Manager

Port belonging to Kirkcaldy

ENGINES, &c.—

Description of Engines

Triple Expansion 3 Cyls.

Diameter of Cylinders 11x17x30 Length of Stroke 20 No. of Rev. per minute _____ Point of Cut off, High Pressure 6 Low Pressure 6

Diameter of Screw shaft 5 1/2 Diam. of Tunnel shaft 6 1/4 Diam. of Crank shaft journals 5 1/2 Diam. of Crank pin 5 1/2 size of Crank webs 6x4

Diameter of screw 7-6 Pitch of screw 11-0 No. of blades 4 state whether moveable no total surface 21 ft²

No. of Feed pumps one diameter of ditto 2 1/4 Stroke 13 Can one be overhauled while the other is at work yes

No. of Bilge pumps one diameter of ditto 2 1/4 Stroke 13 Can one be overhauled while the other is at work yes

Where do they pump from Bilges

No. of Donkey Engines one Size of Pumps 4 1/4 x 2 1/2 x 4 duplex Where do they pump from Sea, hotwell, tank & bilges.

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 yes

No. of bilge injections one and sizes 3 Are they connected to condenser, or to circulating pump no

How are the pumps worked Levers

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 none How are they protected yes

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 While building

Is the screw shaft tunnel watertight yes and fitted with a sluice door yes worked from yes

BOILERS, &c.—

Number of Boilers one Description Cyl. multi. Whether Steel or Iron Steel S.

Working Pressure 150 Tested by hydraulic pressure to 300 Date of test 1.6.91. H.239

Description of superheating apparatus or steam chest none

Can each boiler be worked separately yes Can the superheater be shut off and the boiler worked separately yes

Area of square feet of fire grate surface in each boiler 34 ft² Description of safety valves Spring No. to each boiler two

Area of each valve 4.9 Are they fitted with easing gear yes No. of safety valves to superheater yes area of each valve yes

Are they fitted with easing gear yes Smallest distance between boilers and bunkers or woodwork 8" Diameter of boilers 10-6

Length of boilers 8-10 description of riveting of shell long. seams D.B.S.T.R. circum. seams L.D.R. Thickness of shell plates 1 1/16

Diameter of rivet holes 1/16 whether punched or drilled no pitch of rivets 6 1/2 x 3 1/4 Lap of plating 8 1/2

Percentage of strength of longitudinal joint 83.6 working pressure of shell by rules 160 size of manholes in shell 15 1/2 x 11 1/2

No. of compensating rings yes No. of Furnaces in each boiler two

Outside diameter 3.3 3/8 length, top 6-0 bottom 6-0 thickness of plates 1/16 description of joint D.B.S.T.R. if rings are fitted no

Greatest length between rings yes working pressure of furnace by the rules 157 combustion chamber plating, thickness, sides 3/4 back 5/8 top 3/4

Pitch of stays to ditto, sides 10 1/2 back 8 3/4 top 10 1/2 If stays are fitted with nuts or riveted heads nuts working pressure of plating by

rules 156 Diameter of stays at smallest part 1 1/8 working pressure of ditto by rules 153 end plates in steam space, thickness 1

Pitch of stays to ditto 16 1/4 how stays are secured D.N.R.W. working pressure by rules 155 diameter of stays at

smallest part 2 1/8 working pressure by rules 157 Front plates at bottom, thickness 7/8 Back plates, thickness 7/8

Greatest pitch of stays yes working pressure by rules yes Diameter of tubes 3 1/4 pitch of tubes 4 1/2 thickness of tube

plates, front 7/8 back 7/8 how stayed Stayed pitch of stays 9" width of water spaces 8"

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

Pitch of rivets yes working pressure of shell by rules yes diameter of flue yes thickness of plates yes If stiffened with rings yes

Distance between rings yes working pressure by rules yes end plates of superheater, or steam chest; thickness yes how stayed yes

Superheater or steam chest; how connected to boiler yes

Description of furnaces

DONKEY BOILER—

Description

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:— *not required*

The foregoing is a correct description,

John Scott & Co Manufacturer.

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

The machinery of this vessel has been built under special survey, workmanship material good. The safety valves have been adjusted under steam to blow at 150 lbs per sq.

A vessel being launched she went ashore and broke propeller & bent tail shaft. New propeller & tail shaft now fitted. Copy of damage survey report sent herewith.

It is submitted that this vessel is eligible to have + L.M.C. 7-91 recorded

*W.A.
23.7-91*

The machinery of this vessel is now in safe working order and eligible in my opinion, to be classed & marked in the Reg. Book. + L.M.C. 7-91

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

Special ... £ 8 : - :

Donkey Boiler Fee ... £ 2 : 2 :

Certificate (if required) ... £ : : 22nd July 1891

To be sent as per margin.

(Travelling Expenses, if any, £ 1 : 9 : 10)

Damage Survey Report (1-1)

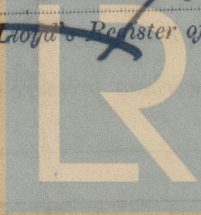
Committee's Minute

FRI 24 JUL 1891

+ Lmb 7/91

W. J. Darling

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



Lloyd's Register
Foundation