

REPORT ON MACHINERY.

10402

FRI. 16 OCT 1896

Port of Stuel

No. in Survey held at Stuel Date, first Survey Jan 20 Received at London Office 13
 Reg. Book. 10 Supp on the Trawler - Trinidad Last Survey Sep 28 1896
 (Number of Visits 21) Tons } Gross 14 1/2
 Net 6 1/2
 Master: Stuel Built at Stuel By whom built Cook Welton & General When built 1896
 Engines made at Stuel By whom made Amos & Smith when made 1896
 Boilers made at Stuel By whom made do: when made 1896
 Registered Horse Power 35 Owners Stuel Steam Fishing & Ice Co. Port belonging to Stuel.
 Nom. Horse Power as per Section 28 35

ENGINES, &c.— Description of Engines Triple expansion Wtd cylo. No. of Cylinders 3
 Diameter of Cylinders 10 x 16 x 25 1/2 Length of Stroke 20 Revolutions per minute 110 Diameter of Screw shaft 5 1/4
 as per rule 5 as fitted 5 1/4 Diameter of Crank shaft journals 5 1/4 Diameter of Crank pin 5 1/4 Size of Crank webs 7 x 3 1/2
 Diameter of screw 7 1/8 Pitch of screw 8 1/8 No. of blades 4 State whether moveable no Total surface 18 1/2 sq ft
 No. of Feed pumps one Diameter of ditto 2 1/8 Stroke 11 Can one be overhauled while the other is at work ✓
 No. of Bilge pumps one Diameter of ditto 2 1/8 Stroke 11 Can one be overhauled while the other is at work ✓
 No. of Donkey Engines one Sizes of Pumps 4 1/2 x 2 3/4 x 5 1/2 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room one 2" dia. In Holds, &c. one 2" dia.

No. of bilge injections 1 sizes 2 1/2 Connected to condenser, or to circulating pump no Is a separate donkey suction fitted in Engine room & size Ejector
 Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible yes
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks valves & cocks
 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 hold suction How are they protected wood casing
 Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times yes
 Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yes
 When were stern tube, propeller, screw shaft, and all connections examined in dry dock new Is the screw shaft tunnel watertight no tunnel
 Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.— (Letter for record S) Total Heating Surface of Boilers 573 sq ft
 No. and Description of Boilers one cyl mult. Working Pressure 170. Tested by hydraulic pressure to 340
 Date of test 23/6/96 Can each boiler be worked separately ✓ Area of fire grate in each boiler 22 sq ft No. and Description of safety valves to
 each boiler 2 Spring loaded Area of each valve 3.14 Pressure to which they are adjusted 170 Are they fitted
 with easing gear yes Smallest distance between boilers or uptakes and bunkers or woodwork 7 Mean diameter of boilers 9' 0"
 Length 8' 9" Material of shell plates steel Thickness 1 3/16 Description of riveting: circum. seams double rivet long. seams 5 Butt straps
 Diameter of rivet holes in long. seams 29/32 Pitch of rivets 5 7/8 Lap of plates or width of butt straps 12 3/4
 Per centages of strength of longitudinal joint 84.6 Working pressure of shell by rules 172 Size of manhole in shell 16 x 12
 Size of compensating ring 30 x 13/16 No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 33"
 Length of plain part 63" Thickness of plates 4 1/16 Description of longitudinal joint welded No. of strengthening rings ✓
 Working pressure of furnace by the rules 211 Combustion chamber plates: Material steel Thickness: Sides 9/16 Back 9/16 Top 19/32 Bottom 7/8
 Pitch of stays to ditto: Sides 8" Back 8" Top 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 170
 Material of stays steel Diameter at smallest part 1.48 Area supported by each stay 64" Working pressure by rules 184 End plates in steam space:
 Material steel Thickness 7/8 Pitch of stays 14 1/2 How are stays secured nuts Working pressure by rules 172 Material of stays steel
 Diameter at smallest part 2.24 Area supported by each stay 181" Working pressure by rules 200 Material of Front plates at bottom steel
 Thickness 7/8 Material of Lower back plate steel Thickness 7/8 Greatest pitch of stays double Working pressure of plate by rules 170
 Diameter of tubes 3 1/2 Pitch of tubes 4 3/4 Material of tube plates steel Thickness: Front 7/8 Back 5 3/16 Mean pitch of stays 11 7/8
 Pitch across wide water spaces 13 1/2 Working pressures by rules 170 Girders to Chamber tops: Material steel Depth and
 thickness of girder at centre 6 1/2 x 1 1/2 Length as per rule 25 3/8 Distance apart 8" Number and pitch of Stays in each 2-8"
 Working pressure by rules 170 Superheater or Steam chest; how connected to boiler no Can the superheater be shut off and the boiler worked
 separately no Diameter no Length no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet
 holes no Pitch of rivets no Working pressure of shell by rules no Diameter of flue no Material of flue plates no Thickness no
 If stiffened with rings no Distance between rings no Working pressure by rules no End plates: Thickness no How stayed no
 Working pressure of end plates no Area of safety valves to superheater no Are they fitted with easing gear no

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 _____ Pressure to which they are adjusted _____ If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____
 Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____
 Description of riveting long. seams _____ Diameter of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____
 Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Thickness of shell crown plates _____ Radius of do. _____ No. of Stays to do. _____
 Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace 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 uptake plates _____ Thickness of water tubes _____

SPARE GEAR. State the articles supplied:— *2 top and bolts, 2 bottom and bolts, 2 main bearing bolts, 1 set coupling bolts, 1 set feed pump valves, 1 set bilge pump valves, set of check valves - 1 safety valve spru*
Vessel provided with masts and sails as a trawler.

The foregoing is a correct description,
FOR AMOS & SMITH, Manufacturer.

[Signature] MANAGER

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

Good.

1896.— Jan 20 Feb 5. 20 Mar 6. 13. 16. 24 Apr 22 May 2. 14. 16. 29 Jan 12
 June 16. 23. July 3. 28 Aug 16. 27 Sep 16. 22. 23. 24. 28
 Total No. of visits *24*

The machinery of this vessel has been constructed under special purview and placed on board in accordance to the Society's Rules and is eligible in my opinion for the notification *+L.M.C. 9-96* in the Register Book

[Large blue scribble]

It is submitted that this vessel is eligible for THE RECORD. **L.M.C. 9.96.**

[Signature] R.S. 16/10/96

Certificate (if required) to be sent to *Inst.*

The amount of Entry Fee. . . £ 1 : : : When applied for, _____
 Special £ 8 : : : 15/10/96
 Donkey Boiler Fee £ _____ : : : When received, _____
 Travelling Expenses (if any) £ _____ : : : 26.10.96

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

Committee's Minute **TUES. 20 OCT 1896**

Assigned *+L.M.C. 9.96*

The Surveyors are requested not to write on or below the space for Committee's Minute.

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