

REPORT ON MACHINERY.

Port of Stuel

FRI, 16 OCT 1896

No. in Survey held at StuelDate, first Survey Jan 20

Received at London Office

Last Survey Sep 28

1896

Reg. Book.

(Number of Visits 1)10 Supp on the CrawlersTrinidad

Tons

Gross 14 1/2Net 6 1/2

Master

Built at StuelBy whom built Cook Welton & CoWhen built 1896Engines made at StuelBy whom made Amos & Smithwhen made 1896Boilers made at StuelBy whom made dowhen made 1896Registered Horse Power 35Owners Stuel Steam Fishing & Ice Co Port belonging to StuelNom. Horse Power as per Section 28 35

ENGINES, &c.—

Description of Engines Triple expansionWtd cyloNo. of Cylinders 3Diameter of Cylinders 10 x 16 x 25 1/2Length of Stroke 20Revolutions per minute 110Diameter of Screw shaft 5 1/4as per rule 5 1/4as fitted 5 1/4Diameter of Tunnel shaft 5as per rule 5Diameter of Crank shaft journals 5 1/4Diameter of Crank pin 5 1/4Size of Crank webs 7 x 3 1/2Diameter of screw 7-9Pitch of screw 8-9No. of blades 4State whether moveable noTotal surface 18 1/2No. of Feed pumps oneDiameter of ditto 2 1/8Stroke 11Can one be overhauled while the other is at work ✓No. of Bilge pumps oneDiameter of ditto 2 1/8Stroke 11Can one be overhauled while the other is at work ✓No. of Donkey Engines oneSizes 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 one2" dia.In Holds, &c. one2" dia.No. of bilge injections 1sizes 2 1/2Connected to condenser, or to circulating pump Is a separate donkey suction fitted in Engine room & sizeEjectorAre all the bilge suction pipes fitted with roses YesAre the roses in Engine room always accessible YesAre the sluices on Engine room bulkheads always accessible YesAre all connections with the sea direct on the skin of the ship YesAre they Valves or Cocks Valves & cocksAre they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates YesAre the discharge pipes above or below the deep water line aboveAre they each fitted with a discharge valve always accessible on the plating of the vessel YesAre the blow off cocks fitted with a spigot and brass covering plate YesWhat pipes are carried through the bunkers hold suctionHow are they protected wood casingAre all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times YesAre the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges YesWhen were stern tube, propeller, screw shaft, and all connections examined in dry dock newIs the screw shaft tunnel watertight no tunnelIs it fitted with a watertight door ✓worked from ✓

BOILERS, &c.—

(Letter for record S)Total Heating Surface of Boilers 573sq ftNo. and Description of Boilers One cyl multiWorking Pressure 170Tested by hydraulic pressure to 340Date of test 23/6/96Can each boiler be worked separately ✓Area of fire grate in each boiler 22No. and Description of safety valves to each boilereach boiler 2 Spring loadedArea of each valve 3-14Pressure to which they are adjusted 170

Are they fitted

with easing gear YesSmallest distance between boilers or uptakes and bunkers or woodwork 7"Mean diameter of boilers 9'0"Length 8'9"Material of shell plates steelThickness 13/16Description of riveting: circum. seams double rivetlong. seams 5 Butt strapsDiameter of rivet holes in long. seams 29/32Pitch of rivets 5 7/8Lap of plates or width of butt straps 12 3/4Per centages of strength of longitudinal joint 84-6

rivets

plate

Working pressure of shell by rules 172Size of manhole in shell 16 x 12Size of compensating ring 30 x 13/16No. and Description of Furnaces in each boiler 2 plainMaterial steelOutside diameter 33"Length of plain part 63"

top

bottom

Thickness of plates 4 1/4

crown

bottom

Description of longitudinal joint weldedNo. of strengthening rings ✓Working pressure of furnace by the rules 211Combustion chamber plates: Material steelThickness: Sides 9/16Back 9/16Top 19/32Bottom 7/8Pitch of stays to ditto: Sides 8"Back 8"Top 8"If stays are fitted with nuts or riveted heads nutsWorking pressure by rules 170Material of stays steelDiameter at smallest part 1-48Area supported by each stay 64"Working pressure by rules 184End plates in steam space: ✓Material steelThickness 7/8Pitch of stays 14 1/2How are stays secured nutsWorking pressure by rules 172Material of stays steelDiameter at smallest part 2-24Area supported by each stay 181"Working pressure by rules 200Material of Front plates at bottom steelThickness 7/8Material of Lower back plate steelThickness 7/8Greatest pitch of stays doubleWorking pressure of plate by rules 170Diameter of tubes 3 1/2Pitch of tubes 4 3/4Material of tube plates steelThickness: Front 7/8Back 53/64Mean pitch of stays 11 7/8Pitch across wide water spaces 13 1/2Working pressures by rules 170Girders to Chamber tops: Material steel

Depth and

thickness of girder at centre 6 1/2 x 1 1/2Length as per rule 25 3/8Distance apart 8"Number and pitch of Stays in each 2-8"Working pressure by rules 170

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately noDiameter noLength noThickness of shell plates noMaterial noDescription of longitudinal joint noDiam. of rivet noholes noPitch of rivets noWorking pressure of shell by rules noDiameter of flue noMaterial of flue plates noThickness noIf stiffened with rings noDistance between rings noWorking pressure by rules noEnd plates: Thickness noHow stayed noWorking pressure of end plates noArea of safety valves to superheater noAre they fitted with easing gear nonononononono

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 spring. Vessel provided with masts and sails as a trawler.

The foregoing is a correct description,

FOR AMOS & SMITH,

Manufacturer.

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

Good.

Dates of survey while building

During progress of work in shops - -
 During erection on board vessel - -
 Total No. of visits 24

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

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.

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

R.B.
 16/10/96

A.S.
 16.10.96

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

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

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

Committee's Minute TUES. 20 OCT 1896

Assigned

+ L.M.C. 9.96



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Lloyd's Register
Foundation

W.B. & L. (439W)