

Port of *Hull*Received at London Office *NOV 14 1902*No. in Survey held at *Hull*
Reg. Book.Date, first Survey *June 16* Last Survey *Nov 14* 1902(Number of Visits *22*)40 *Supp.* on the*Steam Trawler Sverre*Gross *239*
Net *84*

Master

Built at *Hull*

By whom built

Lock Weller & Son When built *1902*

Engines made at

Hull

By whom made

*Amos Smith*when made *1902*

Boilers made at

Hull

By whom made

*Amos Smith*when made *1902*

Registered Horse Power

Owners *Pickering & Baldam & Co* Port belonging to *Hull*

Nom. Horse Power as per Section 28

*72 70*Is Refrigerating Machinery fitted *No*Is Electric Light fitted *No*

ENGINES, &c.—Description of Engines

*Triple Compound*No. of Cylinders *Three*No. of Cranks *Three*Dia. of Cylinders *12 1/2" 2 1/2" 35"* Length of Stroke *24"* Revs. per minute *112* Dia. of Screw shaft *7 1/2"* as per rule *7 1/2"* as fitted *7 9/16"* Material of *Iron* screw shaftIs the screw shaft fitted with a continuous liner the whole length of the stern tube *Yes* Is the after end of the liner made water tightin the propeller boss *Yes* If the liner is in more than one length are the joints burned *no* If the liner does not fit tightly at the partbetween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *-* If twoliners are fitted, is the shaft lapped or protected between the liners *-* Length of stern bush *36"*Dia. of Tunnel shaft *6.63* as per rule *7* as fitted *7* Dia. of Crank shaft journals *6.97* as per rule *7 1/2* as fitted *7 1/2* Dia. of Crank pin *7 1/4"* Size of Crank webs *14 1/2"* Dia. of thrust shaft undercollars *7 1/4"* Dia. of screw *9.0"* Pitch of screw *11.3"* No. of blades *4* State whether moveable *No* Total surface *28 sq ft*No. of Feed pumps *one* Diameter of ditto *2 7/8"* Stroke *12"* Can one be overhauled while the other is at work *-*No. of Bilge pumps *one* Diameter of ditto *2 7/8"* Stroke *12"* Can one be overhauled while the other is at work *-*No. of Donkey Engines *two* Sizes of Pumps *3 x 6" & 5 x 5"* No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room

two 2"

In Holds, &c.

*two 2"**Ejection suction in Engine Bilge and hold & discharge on deck*No. of bilge injections *two sizes 3"* Connected to condenser, or to circulating pump *no* Is a separate donkey suction fitted in Engine room & size *equal*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 *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 *Suctions to forward* 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 *Nov 1902* Is the screw shaft tunnel watertight *Yes*Is it fitted with a watertight door *-* worked from *-*

BOILERS, &c.—

(Letter for record *S*)Total Heating Surface of Boilers *1090 sq ft*Is forced draft fitted *No*

No. and Description of Boilers

*One Cylindrical*Working Pressure *205 lb*Tested by hydraulic pressure to *400 lb*Date of test *6/9/02* Can each boiler be worked separately *-* Area of fire grate in each boiler *34 sq ft* No. and Description of safety valves toeach boiler *Two Spring* Area of each valve *3.98 sq in* Pressure to which they are adjusted *205 lb* Are they fitted with easing gear *Yes*Smallest distance between boilers or uptakes and bunkers or woodwork *8"* Mean dia. of boilers *12.0"* Length *10.3"* Material of shell plates *Steel*Thickness *1 1/8"* Range of tensile strength *27.32* Are they welded or flanged *-* Descrip. of riveting: cir. seams *all in lap* long. seams *all shop*Diameter of rivet holes in long. seams *15/32"* Pitch of rivets *7.77"* Lap of plates or width of butt straps *16 1/4"*Per centages of strength of longitudinal joint *89.2%* rivets *85.1%* plate Working pressure of shell by rules *203 lb* Size of manhole in shell *16 x 12"*Size of compensating ring *40 x 30 x 1 1/8"* No. and Description of Furnaces in each boiler *one* Material *Steel* Outside diameter *45 1/4"*Length of plain part *top* *bottom* *10 1/16"* Thickness of plates *10 1/16"* Description of longitudinal joint *welded* No. of strengthening rings *Compound*Working pressure of furnace by the rules *222 lb* Combustion chamber plates: Material *Steel* Thickness: Sides *1 1/16"* Back *1 9/16"* Top *1 9/16"* Bottom *1 1/16"*Pitch of stays to ditto: Sides *7 1/2"* Back *7 1/2"* Top *7 1/2"* If stays are fitted with nuts or riveted heads *both* Working pressure by rules *257 lb*Material of stays *Steel* Diameter at smallest part *1 3/8"* Area supported by each stay *7 1/2 x 7 1/2* Working pressure by rules *211 lb* End plates in steam space:Material *Steel* Thickness *1"* Pitch of stays *15"* How are stays secured *all nuts* Working pressure by rules *210 lb* Material of stays *Steel*Diameter at smallest part *2 1/7 3/32"* Area supported by each stay *15 x 15* Working pressure by rules *224 lb* Material of Front plates at bottom *Steel*Thickness *3 1/32"* Material of Lower back plate *Steel* Thickness *1 5/16"* Greatest pitch of stays *1 1/4"* Working pressure of plate by rules *200 lb*Diameter of tubes *3 1/2"* Pitch of tubes *4 7/8"* Material of tube plates *Steel* Thickness: Front *3 1/32"* Back *29/32"* Mean pitch of stays *9 1/4"*Pitch across wide water spaces *14"* Working pressures by rules *208 lb* Girders to Chamber tops: Material *Steel* Depth andthickness of girder at centre *8 1/2" x 2"* Length as per rule *34 1/2"* Distance apart *7 1/2"* Number and pitch of Stays in each *Three 7 1/2"*Working pressure by rules *204 lb* Superheater or Steam chest; how connected to boiler *-* Can the superheater be shut off and the boiler workedseparately *-* Diameter *-* Length *-* Thickness of shell plates *-* Material *-* Description of longitudinal joint *-* Diam. of rivetholes *-* Pitch of rivets *-* Working pressure of shell by rules *-* Diameter of flue *-* Material of flue plates *-* Thickness *-*If stiffened with rings *-* Distance between rings *-* Working pressure by rules *-* End plates: Thickness *-* How stayed *-*Working pressure of end plates *-* Area of safety valves to superheater *-* Are they fitted with easing gear *-*

DONKEY BOILER— No. Description *None*

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
Dia. of donkey boiler Length Material of shell plates Thickness Range of tensile strength
Descrip. of riveting long. seams Dia. 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:— *Two top end bolts. Two bottom end bolts. Two main bearing bolts. One set coupling bolts. One set feed pump valves. One set Bilge Pump valves. Safety valve opening H.*

The vessel efficient with masts and sails as a steamer.
The foregoing is a correct description,

Manufacturer.

FOR AMOS & SMITH

W. J. H. H. H.

MANAGER

Dates of Survey while building { During progress of work in shops— 1902:— June 16. July 3. 8. Aug 6. 12. 19. 22. Sep 12. 16. 30. Oct 2. 8. 15. 16.
During erection on board vessel — Oct 20. 24. 29. 31. Nov 3. 7. 10. 14.
Total No. of s 22

Is the approved plan of main boiler forwarded herewith *✓*

“ “ “ donkey “ “ “

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

The Machinery and Boiler of this Steam Steamer have been constructed under Special Survey and placed on board in accordance with the Society's Rules. They are now in my opinion in safe working condition and the case is respectfully submitted for the certification + LMC 11. 02. in the Register Book

It is submitted that this vessel is eligible for THE RECORD. + LMC 11. 02.

C.M.
20. 11. 02

J. L.
20. 11. 02

The amount of Entry Fee. £ 1 : . : When applied for, 17/11/1902
Special £ 10 : 16 :
Donkey Boiler Fee £ : : :
Travelling Expenses (if any) £ : : :
When received, 20/11/02 21. 11. 02

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

Committee's Minute

FRI. 21 NOV 1902

Assigned

+ LMC 11. 02

MACHINERY CERTIFICATE
WRITTEN.



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Foundation