

REPORT ON MACHINERY.

No. 9483

Port of Hull

No. in Survey held at Hull Date, first Survey Nov. 28/94 Last Survey Feb. 16th 1895
 Reg. Book. 175 on the Trawler "JERSEY" (Number of Visits 13)
 Master Beresley Built at Beresley By whom built Cochrane & Co. Tons { Gross 139 Net 56
 Engines made at Hull By whom made C.D. Stables & Co. When built 1895
 Boilers made at do. By whom made do. when made 1895
 Registered Horse Power 35 Owners Hull Steam Fishing & Ice Co. Port belonging to Hull
 Nom. Horse Power as per Section 28 32

Received at London Office **MON 28 FEB 1895**

ENGINES, &c.— Description of Engines Triple 4 1/2: direct acting No. of Cylinders 3
 Diameter of Cylinders 10" 16" 25 1/2" Length of Stroke 20" Revolutions per minute 116 Diameter of Screw shaft as per rule 5.01
 Diameter of Tunnel shaft as per rule 4.75 as fitted 5.0 Diameter of Crank shaft journals 5 1/4" Diameter of Crank pin 5 1/4" Size of Crank webs 7" x 3 3/4"
 Diameter of screw 7 1/4" Pitch of screw 9'-0" to 7'-9" No. of blades 4 State whether moveable no Total surface 22 sq
 No. of Feed pumps 1 Diameter of ditto 1 1/2" Stroke 20" Can one be overhauled while the other is at work ✓
 No. of Bilge pumps 1 Diameter of ditto 2" Stroke 20" Can one be overhauled while the other is at work ✓
 No. of Donkey Engines no Sizes of Pumps 2 3/4" x 4 duplex No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room One 2" In Holds, &c. One 2"

of bilge injections 1 sizes 3/2 Connected to condenser, or to circulating pump no Is a separate donkey suction fitted in Engine room & size no. 2 jets
 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
 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
 at pipes are carried through the bunkers suctions to forward How are they protected wood cased
 all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times yes
 the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges yes
 when stern tube, propeller, screw shaft, and all connections examined in dry dock now new Is the screw shaft tunnel watertight no tunnel
 fitted with a watertight door ✓ worked from ✓

BOILERS, &c.— (Letter for record S) Total Heating Surface of Boilers 524 sq
 and Description of Boilers 1 Cyl. built Working Pressure 170 Tested by hydraulic pressure to 340
 Date of test 7/1/95 Can each boiler be worked separately ✓ Area of fire grate in each boiler see attached No. and Description of safety valves to boiler 2 Spring loaded Area of each valve 3.140" Pressure to which they are adjusted 175 lbs 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 13/16 Description of riveting: circum. seams b. h. lap long. seams triple b. butt
 Diameter of rivet holes in long. seams 7/8" Pitch of rivets 5.875 Lap of plates or width of butt straps 13"
 Percentages of strength of longitudinal joint rivets 92% plate 85% Working pressure of shell by rules 174 Size of manhole in shell 16" x 12"
 Diameter of compensating ring 6" x 13/16 No. and Description of Furnaces in each boiler two plain Material Steel Outside diameter 33"
 Length of plain part top 5'-8" bottom 5'-10" Thickness of plates crown 4 1/4" bottom 4 1/4" Description of longitudinal joint welded No. of strengthening rings ✓
 Working pressure of furnace by the rules 170 Combustion chamber plates: Material Steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 4 1/4"
 Diameter of stays to ditto: Sides 7 1/2" Back 7 5/8" Top 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 171
 Material of stays Steel Diameter at smallest part 1 3/8" Area supported by each stay 8' x 7 1/2" Working pressure by rules 197 End plates in steam space: Material Steel Thickness 15/16" Pitch of stays 15" How are stays secured b. nuts Working pressure by rules 175 Material of stays Steel
 Diameter at smallest part 2 1/2" Area supported by each stay 18' x 12" Working pressure by rules 202 Material of Front plates at bottom Steel
 Thickness 13/16 Material of Lower back plate Steel Thickness 12/16 Greatest pitch of stays 7 1/4" Working pressure of plate by rules 170
 Diameter of tubes 3 1/4" Pitch of tubes 4 3/4" Material of tube plates Steel Thickness: Front 13/16 Back 13/16 Mean pitch of stays 13 1/2"
 Distance across wide water spaces 13" Working pressures by rules 170 Girders to Chamber tops: Material Iron Depth and thickness of girder at centre 6 1/4" x 1 1/4" Length as per rule 27" Distance apart 8" Number and pitch of Stays in each three 7 1/2"
 Working pressure by rules 202 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked separately
 Diameter _____ Length _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet _____
 Pitch of rivets _____ Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____
 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—

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 boiler _____
 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 _____ Descripti _____
 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 end bolts, 2 bottom end bolts, 2 main bolts, 1 set coupling bolts, 1 set feed pump valves, 1 set bilge do. 1 safety valve spring, 1 set check valves - Vessel efficient with masts stays as a trawler.

The foregoing is a correct description,

Charles D. Holmes Manufacturer.

General Remarks

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

Good.

The machinery, boiler of this steam trawler have been constructed under special survey and placed on board in accordance with the Society's Rules. They are now in our opinion in safe-working condition and the case is respectfully submitted, the notification + LMC 2-95 in the Registered Book -

It is submitted that this vessel is eligible for THE RECORD + LMC 2-95

The surveyor should be reported to send a note giving the area of the fire grate - see list attached

W.A. 25-2-95

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

Certificate (if required) to be sent to *Hull*

The amount of Entry Fee..	£ 1	When applied for,	22/2/95
Special	£ 8	When received,	28/2/95
Donkey Boiler Fee .. .	£ -		
Travelling Expenses (if any) £	-		

James Bruce St. John
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping

Committee's Minute **JUES 26 FEB 1895**

Assigned *+ L.M.C. 2-95*

