

REPORT ON MACHINERY.

9956

Port of SwanReceived at London Office TUES. 17 SEP 1895No. in Survey held at SwanDate, first Survey May 7Last Survey Sept 16 1895

Reg. Book.

Supply on the Swan Steam Trawler "Undaunted"(Number of Visits 19)Tons ^{Gross} 141
_{Net} 53

Master

Built at BeverleyBy whom built Cochrane & CooperWhen built 1895Engines made at SwanBy whom made Earle & Sonwhen made 1895Boilers made at SwanBy whom made Earle & Sonwhen made 1895Registered Horse Power 44Owners Grimby Union I. & C.Port belonging to GrimbyNom. Horse Power as per Section 28 47 HP

ENGINES, &c.—

Description of Engines Triple Comp. Eng. & ActingNo. of Cylinders ThreeDiameter of Cylinders 11" 14" 20" Length of Stroke 21 Revolutions per minute 130 Diameter of Screw shaft as per rule 5.307
as fitted 5 3/8"Diameter of Tunnel shaft as per rule 5.21 Diameter of Crank shaft journals 5 1/2" Diameter of Crank pin 5 1/2" Size of Crank webs 6 1/2" x 3 1/4"
as fitted 5 1/2"Diameter of screw 7" 8" Pitch of screw 9" 3" No. of blades 4 State whether moveable In Total surface 2129 ftNo. of Feed pumps One Diameter of ditto 2" Stroke 10" Can one be overhauled while the other is at work -No. of Bilge pumps One Diameter of ditto 3" Stroke 10" Can one be overhauled while the other is at work -No. of Donkey Engines One Sizes of Pumps 3" - 6" No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room One 2" In Holds, &c. One 2"

3. Ejector with suction in the Engine Bilge & hold and discharge on deck

No. of bilge injections One size 3 3/4" Connected to condenser, or to circulating pump As a separate donkey suction fitted in Engine room & size As - 4" diaAre 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 YesAre all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks bothAre 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 AboveAre 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 YesWhat pipes are carried through the bunkers Suction to forward How are they protected wood casedAre 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 Now new Is the screw shaft tunnel watertight -Is it fitted with a watertight door - worked from -BOILERS, &c.— (Letter for record S) Total Heating Surface of Boilers 80029 ftNo. and Description of Boilers One Cylindrical Horizontal Working Pressure 160 lb Tested by hydraulic pressure to 320 lbDate of test 24/6/95 Can each boiler be worked separately - Area of fire grate in each boiler 254 ft No. and Description of safety valves toeach boiler Two Spring loaded Area of each valve 3.14 ft Pressure to which they are adjusted 165 lb Are they fittedwith easing gear Yes Smallest distance between boilers or uptakes and bunkers or woodwork 8" Mean diameter of boilers 10' 0"Length 9' 6" Material of shell plates Steel Thickness 27/32" Description of riveting: circum. seams all in lap long. seams all chop 3/4"Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 6 7/8" Lap of plates or width of butt straps 12 1/4"Per centages of strength of longitudinal joint 85 1/2% Working pressure of shell by rules 160 lb Size of manhole in shell 16" 12"Size of compensating ring 30" 20" 27/32" No. and Description of Furnaces in each boiler Two Plain Material Steel Outside diameter 35"Length of plain part top 8' 5" Thickness of plates bottom 4 1/16" Description of longitudinal joint inward No. of strengthening rings -Working pressure of furnace by the rules 161 lb Combustion chamber plates: Material Steel Thickness: Sides 9 1/16" Back 9 1/16" Top 9 1/16" Bottom 10 1/16"Pitch of stays to ditto: Sides 8 1/4" Back 8" Top 8" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 161 lbMaterial of stays Steel Diameter at smallest part 1 3/8" Area supported by each stay 8 1/2" 5" Working pressure by rules 179 lb End plates in steam space:Material Steel Thickness 29/32" Pitch of stays 15" How are stays secured all nut Working pressure by rules 166 lb Material of stays SteelDiameter at smallest part 2 1/2" Area supported by each stay 15" 14 1/2" Working pressure by rules 165 lb Material of Front plates at bottom SteelThickness 27/32" Material of Lower back plate Steel Thickness 10 1/16" Greatest pitch of stays 8" Working pressure of plate by rules 160 lbDiameter of tubes 3 1/2" Pitch of tubes 4 1/2" Material of tube plates Steel Thickness: Front 27/32" Back 27/32" Mean pitch of stays 9"Pitch across wide water spaces 13 1/4" Working pressures by rules 166 lb Girders to Chamber tops: Material Steel Depth andthickness of girder at centre 6" 15 1/16" all Length as per rule 25' Distance apart 7 1/2" Number and pitch of Stays in each Two 8"Working pressure by rules 191 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— Description *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:—*the top end bolts. In bottom end bolts. In main bearing bolts. One set Coupling bolts. One set Dead and Bidge pump valves. One set check valves. Safety valve spring Iron bolts and nuts. The vessel efficient with masts and sails as a power.*
The foregoing is a correct description,
Albion Manufacturer.

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

The Machinery and Boiler of this Steam Drifter has 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 in the Notification + L.M.C. 9-95 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD

L.M.C. 9.95.

*PmS.
17.9.95*

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

The amount of Entry Fee. £ *1 : 0 : 0* When applied for, *14/9/1895*
Special £ *0 : 0 : 0*
Donkey Boiler Fee £ *0 : 0 : 0* When received, *26.9.1895*
Travelling Expenses (if any) £ *0 : 0 : 0*

FRI. 20 SEP 1895

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

TUES. 24 SEP 1895

Committee's Minute

Assigned

+ L.M.C. 9.95

Form No. 19.
Signal Letters

Official Number.

105528

No., Date, and Port of pr

Whether British or Foreign Built.

British

Number of Decks

Number of Masts

Rigged

tern

uild

alleries

ead

ramework and description

umber of Bulkheads

umber of water ballast their capacity in tons

total to quarter the depth f side amidships to botto

of lines

Descript

Three branc Expansion by Bole

Number

Iron or Steel

Pressure when load

GROSS

nder Tonnage Deck

losed-in spaces above

Space or spaces bet

Poop

Forecastle

Round House

Other closed-in spa

Break

Spaces for

Gross To

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Register

Name of Mas

ames, Residence, a

Number of Sixty-f

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9188 [2] 963 J.&C

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