

REPORT ON MACHINERY.

No. 18482

Port of Hull

Received at London Office THUR. NOV. 28 1906

No. in Survey held at *Selby & Hull* Date, first Survey *July 23rd* Last Survey *Oct. 29th 1906*
 Reg. Book. *24* Supp on the *S. J. Lord Nunburnholme* (Number of Visits *24*)
 Master *Selby* Built at *Selby* By whom built *Bochran & Sons* Tons { Gross *271*
 Engines made at *Hull* By whom made *Amos & Smith* Net *98*
 Boilers made at *do* By whom made *do* When built *1906*
 Registered Horse Power *84* Owners *Yorkshire Steam Fishing Co., Ltd.* Port belonging to *Hull*
 Nom. Horse Power as per Section 28 *84* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *No*

ENGINES, &c.—Description of Engines

*Triple*No. of Cylinders *3*No. of Cranks *3*Dia. of Cylinders *13, 22½, 37* Length of Stroke *24* Revs. per minute *114* Dia. of Screw shaft as per rule *7½* Material of *Iron*Is 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 *✓* 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 *3'-0"*Dia. of Tunnel shaft as per rule *6.8"* Dia. of Crank shaft journals as per rule *7.14"* Dia. of Crank pin *7½* Size of Crank webs *14½x4½* Dia. of thrust shaft undercollars *7½* Dia. of screw *8.9"* Pitch of Screw *11-3* No. of Blades *4* State whether moveable *No* Total surface *27 sq. ft.*No. of Feed pumps *2* Diameter of ditto *2½* Stroke *12* Can one be overhauled while the other is at work *yes*No. of Bilge pumps *2* Diameter of ditto *2½* Stroke *12* Can one be overhauled while the other is at work *yes*No. of Donkey Engines *One* Sizes of Pumps *6x3x6* No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room *Two 2" dia.* In Holds, &c. *Three 2" dia*Ejector suction from all bilges + discharge on deck *✓*No. of Bilge Injections *1* sizes *3"* Connected to condenser, or to circulating pump *Cond.* Is a separate Donkey Suction fitted in Engine room & size *2" 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 *none*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 *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*Dates of examination of completion of fitting of Sea Connections *3.9.06* of Stern Tube *3.9.06* Screw shaft and Propeller *3.9.06*Is the Screw Shaft Tunnel watertight *None* Is it fitted with a watertight door *✓* worked from *✓*

BOILERS, &c.—(Letter for record (S))

Manufacturers of Steel *Bleichwalywerk Schulz Knandt.*Total Heating Surface of Boilers *1390 sq. ft.* Forced Draft fitted *No* No. and Description of Boilers *One S.E. cyl. Mult.*Working Pressure *200 lbs* Tested by hydraulic pressure to *400 lbs* Date of test *5.10.06* No. of Certificate *1512*Can each boiler be worked separately *✓* Area of fire grate in each boiler *45 sq. ft* No. and Description of Safety Valves toeach boiler *Two spring* Area of each valve *4.9"* Pressure to which they are adjusted *190 lbs* Are they fitted with easing gear *yes*Smallest distance between boilers or uptakes and bunkers or woodwork *7"* Mean dia. of boilers *13'-0"* Length *10'-3"* Material of shell plates *Steel*Thickness *1 3/16"* Range of tensile strength *28-32* Are the shell plates welded or flanged *No* Descrip. of riveting: cir. seams *bx Lap*long. seams *bx Lap* Diameter of rivet holes in long. seams *1 3/16"* Pitch of rivets *7.7"* Lap of plates or width of butt straps *17 1/4"*Per centages of strength of longitudinal joint rivets *89.2* Working pressure of shell by rules *201 lbs* Size of manhole in shell *16x12"*Size of compensating ring *40x30x1 3/16"* No. and Description of Furnaces in each boiler *Three plain* Material *Steel* Outside diameter *3'-2 1/2"*Length of plain part top *6'-2"* Thickness of plates crown *4 1/2"* Description of longitudinal joint *welded* No. of strengthening rings *✓*bottom *5'-8 1/2"* Working pressure of furnace by the rules *204* Combustion chamber plates: Material *Steel* Thickness: Sides *2 3/32"* Back *2 3/32"* Top *5/8"* Bottom *2 3/32"*Pitch of stays to ditto: Sides *9 1/2"x8 3/4"* Back *9 1/2"x8 3/4"* Top *8 1/2"x6 3/4"* If stays are fitted with nuts or riveted heads *Nuts* Working pressure by rules *214 lbs*Material of stays *Steel* Diameter at smallest part *1 5/8"* Area supported by each stay *83"* Working pressure by rules *224* End plates in steam space:Material *Steel* Thickness *1 1/16"* Pitch of stays *17x15 1/2"* How are stays secured *on + w* Working pressure by rules *202 lbs* Material of stays *Steel*Diameter at smallest part *6.1* Area supported by each stay *263.5"* Working pressure by rules *231* Material of Front plates at bottom *Steel*Thickness *3 1/2"* Material of Lower back plate *Steel* Thickness *1 5/16"* Greatest pitch of stays *14x10"* Working pressure of plate by rules *204*Diameter of tubes *3 1/4"* Pitch of tubes *4 5/8"x4 1/2"* Material of tube plates *Steel* Thickness: Front *3 1/32"* Back *7/8"* Mean pitch of stays *9 1/8"*Pitch across wide water spaces *14"* Working pressures by rules *208 lbs* Girders to Chamber tops: Material *Iron* Depth andthickness of girder at centre *9 1/2"x2"* Length as per rule *2'-10"* Distance apart *8 1/2"* Number and pitch of stays in each *3 @ 6 3/8"*Working pressure by rules *204 lbs* Superheater or Steam chest; how connected to boiler *None* 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 *✓*

W832-0129

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description _____

Made at _____ By whom made _____ When made _____ Where fixed _____

Working pressure _____ tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of Safety _____

Valves _____ No. of Safety Valves _____ Area of each _____ Pressure to which they are adjusted _____ Date of adjustment _____

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 _____ Plates _____

Working pressure of shell by rules _____ 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 _____

Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Stayed by _____

Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— *Two top & two bottom-end connecting rod bolts & nuts. Two main bearing bolts & nuts. One set of coupling bolts & nuts. One set of feed & bilge pump valves. Main & donkey feed check valves. Assorted bolts & nuts &c.*

The foregoing is a correct description,

FOR AMOS & SMITH

Manufacturer.

Dates of Survey while building { During progress of work in shops— 1906:— July 23. Aug 1. 7. 9. 22. Sep 3. *MANAGING PARTNER.* Sep 13. 22. 29. Oct 2. 5. 11. 12. 13. 15. 16. During erection on board vessel — Oct. 18. 20. 24. 25. 29

Total No. of visits 21

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

" " " donkey " " " *✓*

Dates of Examination of principal parts—Cylinders 22.8.06 Slides 29.9.06 Covers 29.9.06 Pistons 13.9.06 Rods 13.9.06

Connecting rods 13.9.06 Crank shaft 29.9.06 Thrust shaft 29.9.06 Tunnel shafts *✓* Screw shaft 22.8.06 Propeller 22.8.06

Stern tube 22.8.06 Steam pipes tested 18.10.06 Engine and boiler seatings 11.10.06 Engines holding down bolts 12.10.06

Completion of pumping arrangements 20.10.06 Boilers fixed 15.10.06 Engines tried under steam 20.10.06

Main boiler safety valves adjusted 20.10.06 Thickness of adjusting washers *P 3/8" S 3/8"*

Material of Crank shaft *Steel* Identification Mark on Do. *734 P.A. 8.1906* Material of Thrust shaft *Steel* Identification Mark on Do. *292 J.K. 29.9.06*

Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *Iron* Identification Marks on Do. *292 J.K. 29.9.06*

Material of Steam Pipes *Solid drawn copper* Test pressure *400 lbs.*

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

The Engines and Boiler of this vessel have been constructed under Special Survey, are of good material and workmanship, and have been fitted and secured on board in accordance with the Rules. They are now in good working condition and in my opinion eligible to have the notation of + LMC 10.06 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 10.06.

The amount of Entry Fee. £ 1 : : : When applied for, Special £ 12 : 12 : : 6/11/1906 Donkey Boiler Fee £ : : : When received, Travelling Expenses (if any) £ : : 8 : 2 30/11/1906

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

Committee's Minute

FRI. NOV 9 1906

Assigned

+ L.M.C. 10.06

MACHINERY CERTIFICATE WRITTEN.



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Lloyd's Register Foundation

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Dated 22

W B & L (830)

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)