

REPORT ON MACHINERY.

Port of Hull

Received at London WED. 9 SEP 1908

No. in Survey held at Hull Goole.

Date, first Survey Apr. 15th Last Survey 29th Augt 1908

Reg. Book. Supp. on the Steel Sc. Ketch "Ospray II"

(Number of Visits 24)

Master Goole Built at Goole By whom built Goole S.B. & Co. Ld

Tons { Gross 275
Net 106
When built 1908

Engines made at } Hull By whom made } Messrs Charles G. Ld

when made 1908
when made 1908

Registered Horse Power 87 Owners Cygnets Steam Trawling Co. Ltd Port belonging to

Nom. Horse Power as per Section 28 86.8 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 12 1/2 - 21 - 35 Length of Stroke 26 Revs. per minute 102 Dia. of Screw shaft as per rule 7.55 Material of screw shaft 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 tight in the propeller boss Yes If the liner is in more than one length are the joints burned one length the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive — If two liners are fitted, is the shaft lapped or protected between the liners —

Dia. of Tunnel shaft as per rule 6.57 Dia. of Crank shaft journals as per rule 6.9 Length of stern bush 40
Dia. of Thrust shaft as fitted 6.3 Dia. of Crank pin 7 1/8 Size of Crank webs 13" x 4 1/2" Dia. of thrust shaft under collars 7 1/8 Dia. of screw 9-6 Pitch of Screw 11-0 to 12-6 No. of Blades 4 State whether moveable No Total surface 32 sq

No. of Feed pumps 2 Diameter of ditto 2 1/2 Stroke 12 Can one be overhauled while the other is at work Yes
No. of Bilge pumps 2 Diameter of ditto 2 1/2 Stroke 12 Can one be overhauled while the other is at work Yes
No. of Donkey Engines one Sizes of Pumps 5 1/4" x 3 1/2" x 5" No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room One 2", one 3" In Holds, &c. One 2 1/2" to each slush well, and Ejector suction to all parts.

No. of Bilge Injections 1 Sizes 3 1/2 / Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size Yes 3"
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 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 14.7.08 of Stern Tube 14.7.08 Screw shaft and Propeller 14.7.08

Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door — worked from —

BOILERS, &c.—(Letter for record 5) Manufacturers of Steel Phoenix A.K. Ges. Abt. Hoelder Verein

Total Heating Surface of Boilers 1600 sq Is Forced Draft fitted No No. and Description of Boilers 1 Cyl. Multi
Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 30.7.08 No. of Certificate 1660
Can each boiler be worked separately Yes Area of fire grate in each boiler 43.2 sq No. and Description of Safety Valves to each boiler Two Spring Area of each valve 4.9 sq Pressure to which they are adjusted 185 lbs Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 5" Mean dia. of boilers 13-6" Length 11-0" Material of shell plates Steel
Thickness 1 1/8" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams L. D.
long. seams D. B. S. & R. Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 7 1/16" Lap of plates or width of butt straps 16 1/2"

Per centages of strength of longitudinal joint rivets 85.4 Working pressure of shell by rules 185 lbs Size of manhole in shell 16" x 12"
plate 85.3 Size of compensating ring 31 x 28 x 1 1/8" No. and Description of Furnaces in each boiler 3 plain Material Steel Outside diameter 40"

Length of plain part top 8 1/4" bottom 8 1/4" Thickness of plates crown 49 bottom 64 Description of longitudinal joint Welded No. of strengthening rings None
Working pressure of furnace by the rules 181 lbs Combustion chamber plates: Material Steel Thickness: Sides 2 1/32" Buck 5/8" Top 2 1/32" Bottom 2 1/32"

Pitch of stays to ditto: Sides 9" x 8 1/2" Back 8 1/2" x 8" Top 9" x 9" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 183 lbs
Material of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 68 sq Working pressure by rules 200 lbs End plates in steam space: Material Steel Thickness 1 1/8" Pitch of stays 18" x 1 1/8" How are stays secured D. N. Working pressure by rules 181 lbs Material of stays Steel

Diameter at smallest part 2 3/16" Area supported by each stay 312.75 sq Working pressure by rules 207 lbs Material of Front plates at bottom Steel
Thickness 3/32" Material of Lower back plate Steel Thickness 5/16" Greatest pitch of stays 14" Working pressure of plate by rules 203 lbs
Diameter of tubes 3 1/2" Pitch of tubes 4 1/2" x 5" Material of tube plates Steel Thickness: Front 29/32" Back 13/16" Mean pitch of stays 9 1/8"

Pitch across wide water spaces 14" Working pressures by rules 182 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 10 1/2" x 1 1/4" Length as per rule 3-2 1/2" Distance apart 9" Number and pitch of stays in each Three 9"
Working pressure by rules 213 lbs 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 holes _____ 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 _____

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 each top and bottom connecting rod bolts and nuts, two main bearing bolts and nuts, one set coupling bolts and nuts, one set ^{each} air feed and bilge pump valves, + a quantity of assorted bolts nuts etc.*

The foregoing is a correct description,

Manufacturer.

SHIPBUILDING & ENGINEERING CO. LTD.
F. J. Falgout

Dates of Survey while building { During progress of work in shops - - } *1908. - Apr 15 May 6. 12. 20 Jun 3. 22. 25 July 4. 8. 9. 14. 16. 20. 24. 25. 27. 29. 30. Aug 13. 18.* SECRETARY
 { During erection on board vessel - - } *Aug 20. 26. 28. 29*
 Total No. of visits *24*

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

Dates of Examination of principal parts—Cylinders *3.6.08* Slides *16.7.08* Covers *25.7.08* Pistons *3.6.08* Rods *3.6.08*
 Connecting rods *3.6.08* Crank shaft *3.6.08* Thrust shaft *25.6.08* Tunnel shafts _____ Screw shaft *25.6.08* Propeller *14.7.08*
 Stern tube *14.7.08* Steam pipes tested *13.8.08* Engine and boiler seatings *30.7.08* Engines holding down bolts *20.8.08*
 Completion of pumping arrangements *29.8.08* Boilers fixed *20.8.08* Engines tried under steam *29.8.08* ✓
 Main boiler safety valves adjusted *18.8.08* Thickness of adjusting washers *3/8" 3/8"*
 Material of Crank shaft *Steel* Identification Mark on Do. *2062 176* Material of Thrust shaft *Steel* Identification Mark on Do. *136 644*
 Material of Tunnel shafts _____ Identification Marks on Do. _____ Material of Screw shafts *Iron* Identification Marks on Do. *136 644*
 Material of Steam Pipes *Solid drawn Copper* Test pressure *360 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 in accordance with the Rules, the materials and workmanship are good. The boiler tested by hydraulic pressure, and with the engines fitted and secured on board, and tried under steam, and found satisfactory. They are now in good order, and safe working condition, and respectfully submitted as being eligible in my opinion, to be classed with the notation of *L.M.C. 8.08* in the Register Book.*

It is submitted that this vessel is eligible for THE RECORD. *L.M.C. 8.08.*

JRR *J.C. 9.9.08.*
9.9.08

The amount of Entry Fee.	£ 1	:	When applied for.
Special	£ 13	: 1	<i>9/9/08</i>
Donkey Boiler Fee	£	:	When received.
Travelling Expenses (if any)	£	: 11	<i>15/10/08</i>

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

Committee's Minute

FRI. 11 SEP 1908

Assigned

+ L.M.C. 8.08

MACHINERY CERTIFICATE WRITTEN.



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Certificate (if required) to be sent to _____

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