

REPORT ON MACHINERY

No. 28510

Received at London Office

SAT. MAY 22 1915

Date of writing Report 20-5-1915 When handed in at Local Office 20-5-1915 Port of Hull

No. in Survey held at Hull Date, First Survey July 31/14 Last Survey 3-5-1915

Reg. Book. 05 Supp. on the Steam trawler Sir John Jellicoe (Number of Visits 54) Tons Gross 351 Net 165

Master Built at Beverley By whom built Cook, Welton & Gemmell When built 1915

Engines made at Hull By whom made Amos & Smith. (No 2618) when made 1915

Boilers made at Hull By whom made Amos & Smith when made 1915

Registered Horse Power Owners Imperial S.F.C. Ltd Port belonging to Hull

Nom. Horse Power as per Section 28 87 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted yes

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

Dia. of Cylinders 13, 22 1/2, 37 Length of Stroke 24 Revs. per minute 114 Dia. of Screw shaft as per rule 7.72 as fitted 8 1/2 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 If 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 Length of stern bush 40"

Dia. of Tunnel shaft as per rule 6.82 as fitted 7 1/2 Dia. of Crank shaft journals as per rule 7.16 as fitted 7 3/4 Dia. of Crank pin 7 3/4 Size of Crank webs 15x4 3/4 Dia. of thrust shaft under collars 7 3/4

Dia. of screw 9-6 Pitch of Screw 10-9 No. of Blades 4 State whether moveable no Total surface 34 sq ft

No. of Feed pumps 1 Diameter of ditto 3 Stroke 13 Can one be overhauled while the other is at work

No. of Bilge pumps 1 Diameter of ditto 3 Stroke 13 Can one be overhauled while the other is at work

No. of Donkey Engines 241-2 1/2 Sizes of Pumps 6x3x6 & 6 1/4 x 6 1/2 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room two 2" dia. fishroom, each one-2" dia. In Holds, &c. Forehold, fishroom, & spare

Forward & aft slushwells, each one-3" dia. No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2 1/2" 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 forehold suction How are they protected wood casings

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 18-9-14 of Stern Tube 18-9-14 Screw shaft and Propeller 18-9-14

Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record S) Manufacturers of Steel W. Beardmore & Co. Ltd. Glasgow

Total Heating Surface of Boilers 1476 sq ft Is Forced Draft fitted no No. and Description of Boilers one single ended

Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 12-3-15 No. of Certificate 3065

Can each boiler be worked separately Area of fire grate in each boiler 48.5 sq ft No. and Description of Safety Valves to each boiler 2 spring loaded

Area of each valve 49 sq in Pressure to which they are adjusted 200 lbs Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork abt 7" diam. dia. of boilers 156" Length 10-6" Material of shell plates steel

Thickness 1 1/8" Range of tensile strength 29/33 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DR.

long. seams TRDBS Diameter of rivet holes in long. seams 1 3/16" Pitch of rivets 8 7/16" Lap of plates or width of butt straps 17 3/4"

Per centages of strength of longitudinal joint rivets 87 plate 85.9 Working pressure of shell by rules 201 Size of manhole in shell 12x16"

Size of compensating ring 9x1 1/8" No. and Description of Furnaces in each boiler 3 plain Material S Outside diameter 38 9/16"

Length of plain part top 80" bottom 73" Thickness of plates crown 25" bottom 32" Description of longitudinal joint welded No. of strengthening rings

Working pressure of furnace by the rules 200 Combustion chamber plates: Material S Thickness: Sides 11/16" Back 11/16" Top 11/16" Bottom 3/4"

Pitch of stays to ditto: Sides 9 1/2 x 8" Back 8 3/4 x 8 3/8" Top 9 1/4 x 8 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 208

Material of stays S Diameter at smallest part 2.070" Area supported by each stay 78.50" Working pressure by rules 237 End plates in steam space:

Material S Thickness 1 1/8" Pitch of stays 17 1/2 x 17" How are stays secured 9 nutted Working pressure by rules 201 Material of stays S

Diameter at smallest part 7.24" Area supported by each stay 298.0" Working pressure by rules 252 Material of Front plates at bottom S

Thickness 1 1/4" Material of Lower back plate S Thickness 15/16" Greatest pitch of stays 14 x 8 3/8" Working pressure of plate by rules 229

Diameter of tubes 3 1/2" Pitch of tubes 4 3/4" Material of tube plates S Thickness: Front 1 1/4" Back 7/8" Mean pitch of stays 9 1/2"

Pitch across wide water spaces 14" Working pressures by rules 201 lbs Girders to Chamber tops: Material S Depth and thickness of girder at centre 9 1/2 x 1 3/4" Length as per rule 34" Distance apart 9 1/4" Number and pitch of stays in each three 8 1/2"

Working pressure by rules 215 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

Lloyd's Register Foundation W46-0177

IS A DONKEY BOILER FITTED? *no*

If so, is a report now forwarded?

Rpt. 13.

REF

SPARE GEAR. State the articles supplied:— *Two top end bolts & nuts, two bottom end bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts, one set of feed, bilge & air pump valves, one main & one donkey check valve, a quantity of bolts & nuts, & iron of various sizes.*

Port of

No. in on the Reg. Book *105 diff* Built

Owners *Impe*

Yard No. *309*

DESCRIPTION OF

One single to a con

Capacity of Dynam

Where is Dynamo

Position of Main S

Positions of auxili

switches

If fuses are fitted

circuits *Y*

If vessel is wired

Are the fuses of

Are all fuses fitted

are permanent

Are all switches an

Total number of li

A *17*

B *10*

C *7*

D *24*

E

3 Mast head

2 Sid

1

If arc lights, what

Where are the su

DESCRIPTION OF

Main cable carryin

Branch cables carry

Branch cables carry

Leads to lamps car

Cargo light cables co

DESCRIPTION OF

Tulcaniz

armoured

Joints in cables, ho

Are all the joints o

positions, non

Are there any join

How are the cable

clipped to

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

J. Brachebury

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } *1914: July 31, Aug 21, 26, 28, Sep 1, 4, 9, 10, 15, 16, 18, 21, 23, 25, Oct 1, 2, 5, 11, Nov 11, 13, 18.*
{ During erection on board vessel - - - } *24, 28, Dec 8, 11, 15, 18, 22, 29 1915: Jan 2, 7, 11, 15, 21, 27, Feb 2, 10, 18, 24, 23, Mar 1, 5, 9, 12, 18, 22, 26, Apr 1, 8, 13, 14, 23, May 5.*
Total No. of visits *54*

Is the approved plan of main boiler forwarded *h* with *Rpt 283*

" " " donkey " " "

Dates of Examination of principal parts—Cylinders *1-3-15* Slides *12-3-15* Covers *5-3-15* Pistons *9-3-15* Rods *5-3-15*

Connecting rods *5-3-15* Crank shaft *12-3-15* Thrust shaft *11-11-15* Tunnel shafts *12-3-15* Screw shaft *16-9-14* Propeller *18-9-14*

Stern tube *18-9-14* Steam pipes tested *13-4-15* Engine and boiler seatings *18-9-14* Engines holding down bolts *1-4-15*

Completion of pumping arrangements *3-5-15* Boilers fixed *8-4-15* Engines tried under steam *14-4-15*

Main boiler safety valves adjusted *14-4-15* Thickness of adjusting washers *3/8" F+A.*

Material of Crank shaft *Steel* Identification Mark on Do. *12-3-15 PF* Material of Thrust shaft *Steel* Identification Mark on Do. *11-11-14 FLS*

Material of Tunnel shafts *Steel* Identification Marks on Do. *12-3-15 PF* Material of Screw shafts *Iron* Identification Marks on Do. *1272 16-9-14 FLS*

Material of Steam Pipes *S.D. Copper* Test pressure *400 lbs per sq. inch.*

Is an installation fitted for burning oil fuel Is the flash point of the oil to be used over 150°F.

Have the requirements of Section 49 of the Rules been complied with

Is this machinery duplicate of a previous case *yes* If so, state name of vessel *Sir John French*

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery of this vessel has been constructed under special survey in accordance with the approved plans, & the rules of this Society; the materials & workmanship are good, the boilers & steam pipes have been tested as above by hydraulic pressure, & found sound & good. The machinery has been properly fitted & secured on board, & on completion tried under steam & found satisfactory. The safety valves have been adjusted under steam & tested for accumulation, which did not exceed 207 lbs.*

In my opinion the vessel is eligible for the record - LMC 5, 15.

It is submitted that this vessel is eligible for THE RECORD. + LMC 5, 15.

J.W.D. 25/5/15. G.P.R.S.

The amount of Entry Fee ...	£ 1 : 0 : 0	When applied for,	
Special ...	£ 13 : 1 : 0		<i>21.5.1915</i>
Donkey Boiler Fee ...	£ : : :	When received,	
Travelling Expenses (if any) £	: 2 : 0		<i>21/5/15 11/6/15</i>

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

Committee's Minute *WED. MAY. 26. 1915*

Assigned *+ LMC 5, 15.*

MACHINERY TESTED 25/5/15



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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.