

REPORT ON MACHINERY.

No. 28387

Date of writing Report

When handed in at Exam Office

31-4-15

Received at London Office

SAT. APR. - 3 1915

No. in Survey held at Hull

Date, First Survey 31-7-14

Last Survey 15-3-1915

Reg. Book.

On the Steam Trawler "Sir John French"

(Number of Visits 50)

Gross 351

Master

Built at Beverley

By whom built Cook, Welton, & Gemmell

Net 152

When built 1915-3

Engines made at Hull

By whom made Amos & Smith

(No 2616)

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

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 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

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

Dia. of Crank shaft journals

as per rule 7.16

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 2 1/2

Sizes of Pumps 6x3x6 & 6 1/2 x 6 1/2 x 6

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room two - 2" dia.

In Holds, &c. Forehold, fishroom, & spare

fishroom, each one - 2" dia.

Forward & aft slushwells, each one - 3" dia.

No. of Bilge Injections 1

size 3

Connected to condenser, or to circulating pump pumps

a separate Donkey Suction fitted in Engine room & size 2 1/2

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 1-10-14

of Stern Tube 1-10-14

Screw shaft and Propeller 1-10-14

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—(Letter for record S)

Manufacturers of Steel Phoenix & Co. Horder Verein Harde

Total Heating Surface of Boilers 1476 sq ft

Is Forced Draft fitted no

No. and Description of Boilers one single ended

Working Pressure 200

Tested by hydraulic pressure to 400

Date of test 2-2-15

No. of Certificate 3057

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 4.90

Pressure to which they are adjusted 205 lbs

Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork abt. 7" int.

Mean 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 double

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 9" x 1 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

Description of longitudinal joint welded

No. of strengthening rings

Working pressure of furnace by the rules 209

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 2.07

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 4 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 2/8

Mean pitch of stays 9 1/2

Pitch across wide water spaces 14

Working pressures by rules 201

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

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

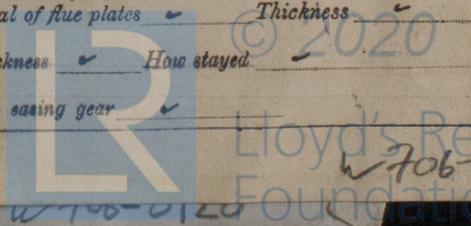
Area of safety valves to superheater

Are they fitted with easing gear

Total No. of Visits 30

Aug 13. 19. 27 Sep

Feb 23 Mar 1. 15



IS A DONKEY BOILER FITTED? no If so, is a report now forwarded?

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 and nuts, and iron of various sizes.

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

W.S. Hyde Manufacturer.

Managing Director.

Dates of Survey while building { During progress of work in shops - - } 1914: - Jul 31 Aug 21. 26. 28 Sept. 1. 4. 9. 10. 15. 16. 18. 21. 23. 25 29. 30 Oct. 1. 7. 9 20
 { During erection on board vessel - - - } 23. 27 Nov 4. 11. 13. 18. 24. 28. Dec 1. 5. 8. 11. 15. 18. 22. 24. 29/1915 Jan 2. 7
 Total No. of visits 50 Is the approved plan of main boiler forwarded herewith yes
 " " " donkey " " "

Dates of Examination of principal parts—Cylinders 2-1-15 Slides 27-1-15 Covers 2-1-15 Pistons 25-1-15 Rods 25-1-15
 Connecting rods 25-1-15 Crank shaft 27-1-15 Thrust shaft 11-11-14 Tunnel shafts 10-2-15 Screw shaft 30-9-14 Propeller 30-9-14
 Stern tube 29-9-14 Steam pipes tested 26-2-15 Engine and boiler seatings 1-10-14 Engines holding down bolts 26-2-15
 Completion of pumping arrangements 15-3-15 Boilers fixed 26-2-15 Engines tried under steam 6-3-15
 Main boiler safety valves adjusted 6-3-15 Thickness of adjusting washers F. 13/32 A 3/8
 Material of Crank shaft Steel Identification Mark on Do. 27-1-15 P.F. Material of Thrust shaft Steel Identification Mark on Do. 11-11-14 FLS 1378
 Material of Tunnel shafts steel Identification Marks on Do. 10-2-15 P.F. Material of Screw shafts Iron Identification Marks on Do. 30-9-14 FLS 1288
 Material of Steam Pipes. 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 "Dane"

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 208 lbs.
In my opinion the vessel is eligible for the record + LMC 3.15

It is submitted that this vessel is eligible for THE RECORD. + LMC 3.15

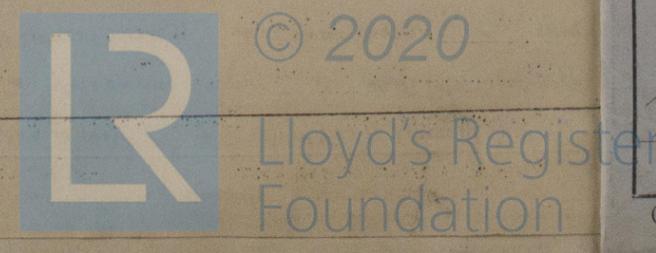
S.P.
3.4.15
J.M.

The amount of Entry Fee ... £ 1 : 0 :
 Special ... £ 13 : 1 : 0
 Donkey Boiler Fee ... £ : : :
 Travelling Expenses (if any) £ : 2 : 0
 When applied for, 1/4/1915
 When received, 14/5/1915 15/5/15

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

Committee's Minute WED. APR. -7. 1915
 Assigned + LMC 3.15

MACHINERY CERTIFICATE REGISTER



Certificate (if registered) to be sent to Hull

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

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