

REPORT ON MACHINERY.

No. 28387

Date of writing Report

When handed in at Agent Office

31-4-15 Port of

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

Net 152

Master

Built at

Beverley

By whom built

Cook, Welton, & Gemmell

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", 22½", 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

✓

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

Dia. of Crank shaft journals

as per rule 7.16

Dia. of Crank pin

7 ¾"

Size of Crank webs

15x4 ¾"

Dia. of thrust shaft under

collars

7 ¾"

Dia. of screw

9-6"

Pitch of Screw

10-9"

No. of Blades

4

State whether moveable

no

Total surface

34 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+1-2½"

Sizes of Pumps

6x3x6"

9 6¼x6 ½x6"

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 2½" dia.

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 Horder

Total Heating Surface of Boilers

1476 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 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"

Mean dia. of boilers

156"

Length

10-6"

Material of shell plates

steel

Thickness

1½"

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 ¾"

Pitch of rivets

8 ½"

Lap of plates or width of butt straps

17 ¾"

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"x1½"

No. and Description of Furnaces in each boiler

3 plain

Material

S

Outside diameter

38 ¾"

Length of plain part

top 80"

Thickness of plates

crown 25"

bottom 32"

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 ½"x8"

Back

8 ¾"x8 ¾"

Top

9 ¼"x8 ½"

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

1½"

Pitch of stays

17 ½"x17"

How are stays secured

4 nuts

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

14x8 3/8"

Working pressure of plate by rules

229

Diameter of tubes

3 ½"

Pitch of tubes

4 ¾"

Material of tube plates

S

Thickness: Front

1 1/4"

Back

2"

Mean pitch of stays

9 ½"

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 ½"x1 ¾"

Length as per rule

34"

Distance apart

9 ¼"

Number and pitch of stays in each

three 8 ½"

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

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 Sep 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

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. $\frac{13}{32}$ A. $\frac{3}{8}$

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

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

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

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
ENTERED



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Lloyd's Register
Foundation