

Date of writing Report 2-8-17 19

When handed in at Local Office 4-8-17

Port of Hull

Received at London Office SAT 18 AUG. 1917

No. in Survey held at Hull

Reg. Book. 51

on the steel screw trawler Olympia

Date, First Survey 4-6-16

Last Survey 28-7-17 19

Master

Built at Beverley

By whom built Cook, Welton & Gemmell

Engines made at Hull

By whom made Arnos & Smith Ltd (2821)

Boilers made at Hull

By whom made Arnos & Smith Ltd

Registered Horse Power

Owners Standard Trawling Co

Port belonging to Gurnsey

Nom. Horse Power as per Section 28 74

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple expansion

No. of Cylinders Three

No. of Cranks 3

Dia. of Cylinders 12 1/2 - 21 1/2 - 35 1/4

Length of Stroke 24

Revs. per minute

Dia. of Screw shaft as per rule 7 1/8

Material of screw shaft as fitted 7 1/2

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 34

Dia. of Tunnel shaft as per rule 6 1/4

Dia. of Crank shaft journals as per rule 6 7/8

Dia. of Crank pin 7

Size of Crank webs 4 1/2 x 4 1/2

Dia. of thrust shaft under collars 6 7/8

Dia. of screw 8-9

Pitch of Screw 11-0

No. of Blades 4

State whether moveable No

Total surface 29 1/2

No. of Feed pumps one

Diameter of ditto 2 3/4

Stroke 12

Can one be overhauled while the other is at work

No. of Bilge pumps one

Diameter of ditto 2 3/4

Stroke 12

Can one be overhauled while the other is at work

No. of Donkey Engines Two 2" dia

Sizes of Pumps 6 1/4, 4 3/4 x 6, 6, 3 x 6

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

In Engine Room Two 2" dia

In Holds, &c. one 2" dia in each compartment

all suction also connected to ejecta

No. of Bilge Injections one size 3

Connected to condenser, or to circulating pump pump

Is a separate Donkey Suction fitted in Engine room & size 2" ejecta

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 No

Are all connections with the sea direct on the skin of the ship Yes

Are they Valves or Cocks Rock

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 Forward suction

How are they protected strong 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

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record S) Manufacturers of Steel John Spencer & Sons Ltd

Total Heating Surface of Boilers 1267 1/2

Is Forced Draft fitted No

No. and Description of Boilers one single ended

Working Pressure 180 lbs

Tested by hydraulic pressure to 360 lbs

Date of test 5-2-17

No. of Certificate 3190 G.A.

Can each boiler be worked separately

Area of fire grate in each boiler 37 6

No. and Description of Safety Valves to each boiler Two spring loaded

Area of each valve 4 9 1/2

Pressure to which they are adjusted 185

Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 8" 1/2 lapped

Dia. of boilers 12-6

Length 10-3 1/2

Material of shell plates steel

Thickness 1 1/2

Range of tensile strength 28-32 tons

Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams double

long. seams J.P.D.B. 1

Diameter of rivet holes in long. seams 1 1/8

Pitch of rivets 7

Lap of plates or width of butt straps 15 7/8

Per centages of strength of longitudinal joint rivets 91 1/2

plate 84 1/2

Working pressure of shell by rules 180

Size of manhole in shell 16" x 12"

Size of compensating ring 9" x 1 1/2

No. and Description of Furnaces in each boiler two plain

Material steel

Outside diameter 44 1/2

Length of plain part top 78

bottom 72 1/2

Thickness of plates crown 3 1/16

bottom 3 1/16

Description of longitudinal joint welded

No. of strengthening rings

Working pressure of furnace by the rules 185

Combustion chamber plates: Material steel

Thickness: Sides 1 1/8

Back 1 1/8

Top 1 1/8

Bottom 3/4

Pitch of stays to ditto: Sides 10" x 7"

Back 9 1/2" x 9"

Top 9 1/2" x 7"

If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 191

Material of stays S

Area at smallest part 2 066

Area supported by each stay 85 5-8

Working pressure by rules 217

End plates in steam space:

Material S

Thickness 1 1/2

Pitch of stays 16 1/4" x 16 1/2"

How are stays secured D. 1 1/2 x 1 1/2

Working pressure by rules 187 1/2

Material of stays steel

Area at smallest part 5 055

Area supported by each stay 268

Working pressure by rules 196

Material of Front plates at bottom steel

Thickness 3/32

Material of Lower back plate steel

Thickness 1 1/8

Greatest pitch of stays 13 3/4" x 9 1/2"

Working pressure of plate by rules 217

Diameter of tubes 3 1/2

Pitch of tubes 4 3/4" x 4 1/2"

Material of tube plates steel

Thickness: Front 3/32

Back 27/32

Mean pitch of stays 11 25

Pitch across wide water spaces 13 3/4

Working pressures by rules 190

Girders to Chamber tops: Material steel

Depth and thickness of girder at centre 8 1/2 x 19 1/2 x 1 3/4

Length as per rule 2-9

Distance apart 8 1/2 x 9 1/2

Number and pitch of stays in each Three 7"

Working pressure by rules 180

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

IS A DONKEY BOILER FITTED?

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 pump valves, & a quantity of bolts & nuts & washers of various sizes.

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

Manufacturer.

Dates of Survey while building	During progress of work in shops - -	1916 Apr 6, 10, 18 May 6, 22 Jun 3, 17 Jul 3, 22, 31 Aug 12, 19, 26 Sep 9, 29 Oct 28 Nov 6, 13, 17, 22 Dec 14, 9, 11, 16, 19, 1917 Jan 2
	During erection on board vessel - -	8, 13, 17, 18, 23, 29 Feb 3, 5 May 15 Jun 28 Jul 10, 19, 25, 27, 28
	Total No. of visits	42

Is the approved plan of main boiler forwarded herewith yes please

Is the approved plan of main boiler forwarded herewith yes please return

“ “ “ *donkey* “ “ “

Dates of Examination of principal parts—Cylinders 1-12-16 Slides 19-12-16 Covers 1-12-16 Pistons 19-12-16 Rods 19-12-16

Connecting rods 8-1-17 Crank shaft 8-1-17 Thrust shaft 17-1-17 Tunnel shafts ✓ Screw shaft 29-9-16 Propeller 29-9-16

Stern tube 29-9-16 Steam pipes tested 10-7-17 Engine and boiler seatings 15-5-17 Engines holding down bolts 13-7-17

Completion of pumping arrangements 28-7-17 Boilers fixed 13-7-17 Engines tried under steam 28-7-17

Completion of fitting sea connections 15-5-17 Stern tube 15-5-17 Screw shaft and propeller 15-5-17

Main boiler safety valves adjusted 20-7-17 Thickness of adjusting washers 0.2132 ✓ 5/16

Material of Crank shaft Stn Identification Mark on Do. 1699 GA Material of Thrust shaft Stn Identification Mark on Do. 1703 GA

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts 22 Identification Marks on Do. 1674 GA

Material of Steam Pipes solid drawn copper Test pressure 400 lbs

Is an installation fitted for burning oil fuel no 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

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

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 Boiler & steam pipes have been tested as above by hydraulic pressure & found sound & good. The machinery has been properly fitted & secured on board the vessel & on completion tested under full power & found to work satisfactorily. The safety valves have been adjusted under steam & tested for accumulation which did not exceed 190 lbs.

In our opinion the vessel is eligible for the next S. K. C. 7, 12

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 7.17

The amount of Entry Fee ...	£	1	:	0	:	When applied for,
Special ...	£	11	:	2	:	17-8-19
Donkey) Boiler Fee ...	£	:	:	:	:	When received,
Travelling Expenses (if any) £	:	4	:	:	:	31/8/19

When received,

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 27 AUG. 1917

Assigned

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Lloyd's Register
Foundation