

REPORT ON MACHINERY.

No. 30103

Date of writing Report 2-8-17 19 17 When handed in at Local Office 4-8- 19 17 Port of Hull

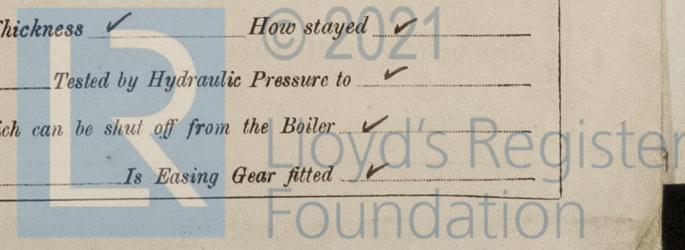
Received at London Office SAT 18 AUG. 1917

No. in Survey held at Hull Date, First Survey 4-6-16 Last Survey 28-7-17 19
 Reg. Book. 51 on the steel screw trawler Olympia (Number of Visits 42)
 Master Beverley Built at Beverley By whom built Cook, Welton & Gemmell Tons } Gross
 Engines made at Hull By whom made Arnold Smith L^d (2821) When built 1917-7 } Net
 Boilers made at Hull By whom made Arnold Smith L^d when made 1917-7
 Registered Horse Power _____ Owners Standard Trawling Co Port belonging to Gimby
 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 7.16 Material of screw shaft Gun
 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 6.4 Dia. of Crank shaft journals as per rule 6.72 Dia. of Crank pin 7 Size of Crank webs 4 3/8 x 4 3/8 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" cylin Sizes of Pumps 6 1/4, 4 3/4 x 6 x 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 sizes 3" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2" cylin
 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 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 L^d
 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 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 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double
 long. seams J.P.D.B. Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 7 Lap of plates on width of butt straps 15 7/8
 Per centages of strength of longitudinal joint rivets 91.2 Working pressure of shell by rules 180 Size of manhole in shell 16" x 12"
 plate 84.42
 Size of compensating ring 9" x 1 3/2 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 7 1/2 bottom 7 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 1/16 Back 1 1/16 Top 1 1/16 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 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 Q. 12.9 W. Working pressure by rules 187.5 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 1/2 Material of Lower back plate steel Thickness 1 5/16 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 1/32 Back 2 7/32 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 82 7/8 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? 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 pump valves, & a quantity of bolts & nuts & nuts 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 - - } { During erection on board vessel - - - } Total No. of visits	1916 Apr 6, 13, 18, 22, 29, 30, 31, May 6, 22, Jun 3, 17, Jul 3, 22, 31, Aug 12, 19, 24, Sep 9, 29, Oct 28, Nov 6, 13, 17, 22, Dec 14, 19, 11, 16, 19, 1917 Jan 5
		{ 8, 13, 17, 18, 23, 29, Feb 3, 5, May 15, Jun 28, Jul 10, 19, 25, 27, 28
		42

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

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 2 1/32 & 5/16
 Material of Crank shaft Iron Identification Mark on Do. 1699 GA Material of Thrust shaft Iron Identification Mark on Do. 1703 GA
 Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Iron Identification Marks on Do. 1674 GA
 Material of Steam Pipes solid drawn copper Test pressure 40 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. Simpson, 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 record + S.P.C. 7.17

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

Engineer-Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 27 AUG. 1917

Assigned

+ L.M.C. 7.17



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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.