

REPORT ON MACHINERY.

No. 66671

Date of writing Report

When Received at Local Office

SEP 30 1914

Port of

Received at London Office

THU. OCT. - 1. 1914.

No. in Survey held at *North Shields*
Reg. Book.Date, First Survey *16 Sept 1914* Last Survey *24 Sept 1914*
(Number of Visits *19*)on the *s/s Elwy*Gross *293*
Net *135*Master Built at *North Shields* By whom built *C. Remoldson & Co* 166 *75* Tons
When built *1914*Engines made at *North Shields* By whom made *Shields Engineering & Dry Dock Ltd* 275 *8*
when made *1914. 9*Boilers made at *Stockton* By whom made *T. Riley Bros Ltd* 4690 when made *1914.*Registered Horse Power Owners *R & D Jones Ltd* Port belonging to *Liverpool*Nom. Horse Power as per Section 28 *58 59* Is Refrigerating Machinery fitted for cargo purposes *No* Is Electric Light fitted *No*ENGINES, &c.—Description of Engines *Compound* No. of Cylinders *two* No. of Cranks *two*Dia. of Cylinders *15 1/2 - 33* Length of Stroke *24* Revs. per minute *100* Dia. of Screw shaft *7 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 tightin 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 partbetween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive *—* If twoliners are fitted, is the shaft lapped or protected between the liners *—* Length of stern bush *2' - 8"*Dia. of Tunnel shaft *as per rule 6.57* Dia. of Crank shaft journals *as per rule 6.89* Dia. of Crank pin *7 1/4* Size of Crank webs *4 1/2 x 10 1/4* Dia. of thrust shaft undercollars *7 1/4* Dia. of screw *8' - 6"* Pitch of Screw *11' - 0"* No. of Blades *4* State whether moveable *No* Total surface *27 sq ft*No. of Feed pumps *one* Diameter of ditto *2 1/2* Stroke *12* Can one be overhauled while the other is at work *—*No. of Bilge pumps *one* Diameter of ditto *2 1/2* Stroke *12* Can one be overhauled while the other is at work *—*No. of Donkey Engines *one* Sizes of Pumps *5 1/4 x 3 1/2 x 5 duplex* No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room *two of 2" dia.* In Holds, &c. *3 of 2" dia. - one 2" from fore peak*No. of Bilge Injections *one* sizes *2 1/2* Connected to condenser, or to circulating pump *C P* Is a separate Donkey Suction fitted in Engine room & size *Yes 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 *—*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 *—* How are they protected *—*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 *21. 8. 14* of Stern Tube *21. 8. 14* Screw shaft and Propeller *21. 8. 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 *Messrs John Spencer & Sons*Total Heating Surface of Boilers *1080* Is Forced Draft fitted *No* No. and Description of Boilers *one Single Multitubular*Working Pressure *130 lbs* Tested by hydraulic pressure to *260 lbs* Date of test *8. 5. 14* No. of Certificate *5292*Can each boiler be worked separately *—* Area of fire grate in each boiler *34 sq ft* No. and Description of Safety Valves toeach boiler *two direct spring* Area of each valve *4.9 sq in* Pressure to which they are adjusted *135 lbs* Are they fitted with easing gear *Yes*Smallest distance between boilers or uptakes and bunkers or woodwork *9"* Mean dia. of boilers Length Material of shell plates

Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

Per centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell

Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter

Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings

Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space

Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

Diameter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each

Working pressure by rules 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

Strengthened 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

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603541-003548-0256

If so, is a report now forwarded?

Two top end bolts and nuts, two Bottom end bolts and nuts, two main
bearing bolts and nuts, spare coupling bolts and nuts, spare feed and
Bilge Pump Valves, assorted iron bolts and nuts.

E. SHIELDS ENGINEERING & DRY DOCK CO., LIMITED.
Richardson
 ENGINE WORKS

Manufacturer.

Dates of Survey while building	{	During progress of	{	1914
		work in shops - -		Apr. 16. 20. 21. 28. May 1. 5. 19. 20. Jun 5. 11. 22. Jul. 1. 8. 28. 31. Sep. 3. 9. 16. 24.
		During erection on		
		board vessel - - -		
		Total No. of visits		19.

Is the approved plan of main boiler forwarded herewith yes ✓ they fit

Dates of Examination of principal parts—Cylinders 20.5.14 Slides Covers 11.6.14 Pistons 11.6.14 Rods 11.6.14
Connecting rods 11.6.14 Crank shaft 20 Thrust shaft 20.5.14 Tunnel shafts — Screw shaft 20.5.14 Propeller 16.4.
Stern tube 16.4.14 Steam pipes tested 9.9.14 Engine and boiler seatings 31.8.14 Engines holding down bolts 3 Sept-14
Completion of pumping arrangements 10.9.14 Boilers fixed 10.9.14 Engines tried under steam 10.9.14
Main boiler safety valves adjusted 10.9.14 Thickness of adjusting washers 0 1/2 3/16

Material of Crank shaft Iron Identification Mark on Do. 448-N Material of Thrust shaft Iron Identification Mark on Do. 448-N
Material of Tunnel shafts — Identification Marks on Do. WC Material of Screw shafts Iron Identification Marks on Do. 448-N
Material of Steam Pipes Cob

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 No ✓ If so, state name of vessel _____

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

The machinery built under Special Survey the material and workmanship found good and efficient. The machinery fitted up on board tested under steam (Vessel at moorings) and found satisfactory. In my opinion this vessel is now eligible for the notification of L.M.C 9-14 to be made in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD + LMC 9.14

The amount of Entry	...	£	1	:	0	:	When applied for,
Special	...	£	5	:	2	:	SEP 30 1914
Donkey Baler Fee	...	£		:		:	1914
Travelling Expenses (if any)	£		:		:	:	When received,
							15 10 11

Leonard Shallcross.
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute FRI. OCT. - 2, 1914

Assigned + Lm 69/14

MACHINERY CERTIFICATE
WRITTEN.



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