

REPORT ON MACHINERY.

No. 81863

Received at London Office

26.19

Report 19 When handed in at Local Office 10 Port of Ipswich
Survey held at Beccles Date, First Survey 3rd Oct. 1917. Last Survey 21st May 1919.
(Number of Visits 19)

the Admiralty Difter "LOP".
Built at Lymington Harb. By whom built G. Courteney & Co. Ltd.
When built

at Beccles By whom made Elliot & Garraod Ltd (No 62) when made 1919.
at By whom made when made

Horse Power Owners Port belonging to
Power as per Section 28 4243. Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

Description of Engines Triple Expansion, surface condensing No. of Cylinders 3 No. of Cranks 3
Cylinders 9 1/2", 15 1/2", 26" Length of Stroke 18" Revs. per minute Dia. of Screw shaft as per rule 5.45 Material of Steel
as fitted 6" screw shaft
shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight
seller 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
bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two
lined, is the shaft lapped or protected between the liners Length of stern bush 2'0"

shaft as per rule 4.799 Dia. of Crank shaft journals as per rule 5.039 Dia. of Crank pin 5 1/4" Size of Crank webs 10 x 3 1/2" Dia. of thrust shaft under
as fitted 5 1/4"
1/2" Dia. of screw 6.9" Pitch of Screw 8.6" No. of Blades 4 State whether moveable No Total surface 18 sq ft

pumps one Diameter of ditto 2 1/2" Stroke 9" Can one be overhauled while the other is at work
pumps one Diameter of ditto 2" Stroke 9" Can one be overhauled while the other is at work

Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
In Holds, &c.

jections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size
suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
connections with the sea direct on the skin of the ship Are they Valves or Cocks

sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line
fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate
are carried through the bunkers How are they protected

s, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

Shaft Tunnel watertight Is it fitted with a watertight door worked from
&c.—(Letter for record) Manufacturers of Steel

ng Surface of Boilers Is Forced Draft fitted No. and Description of Boilers
pressure Tested by hydraulic pressure to Date of test No. of Certificate

er be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to
Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

nce between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
plate
sating ring No. and Description of Furnaces in each boiler Material Outside diameter

in part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
bottom
sure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules
stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space
Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

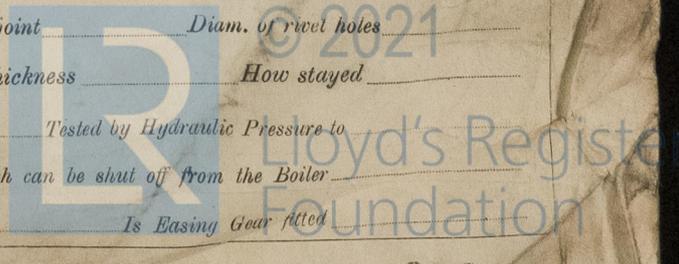
allest part Area supported by each stay Working pressure by rules Material of Front plates at bottom
Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and
rder at centre Length as per rule Distance apart Number and pitch of stays in each

ssure by rules Steam dome: description of joint to shell % of strength of joint
Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
Working pressure of shell by rules Crown plates Thickness How stayed

EATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

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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 coupling bolts & nuts. One set of valves for air, circulating feed & charge pumps. Six condenser tubes and ferrules. 6 laylenders cover studs & nuts. 6 junk ring bolts & nuts. 24 assorted bolts & nuts.

The foregoing is a correct description,

ELLIOTT & CARROD, LTD.

Woodhouse

Manufacturer.

Dates of Survey while building: During progress of work in shops: 1917 Oct. 3, Dec 12, 1918 Feb. 1, 23, Mar. 8, Apr. 8, May 9, June 20, July 19, Sep. 13, Oct. 6, 10, 22, 24, 1919 May 17, 21. Total No. of visits: Is the approved plan of main boiler forwarded herewith: " " " donkey " " "

Dates of Examination of principal parts: Cylinders 1-2-18, 23-2-18, 8-3-18; Slides 8-4-18; Cores 1-2-18; Pistons 19-7-18; Rods 20-6-18; Connecting rods 20-6-18; Crank shaft ✓; Thrust shaft 4-10-18; Tunnel shafts ✓; Screw shaft 9-5-18; Propeller 8-4-18; Stern tube 8-3-18; Steam pipes tested; Engine and boiler seatings; Engines holding down bolts; Completion of pumping arrangements; Boilers fixed; Engines tried under steam; Completion of fitting sea connections; Stern tube; Screw shaft and propeller; Main boiler safety valves adjusted; Thickness of adjusting washers.

Material of Crank shaft: Identification Mark on Do.; Material of Thrust shaft: *Steel*; Identification Mark on Do. *232 267*; Material of Tunnel shafts: ✓; Identification Marks on Do. ✓; Material of Screw shafts: *Steel*; Identification Marks on Do. *D62 RR*; Material of Steam Pipes: Test pressure.

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.

General Remarks (State quality of workmanship, opinions as to class, &c. These engines have been built under Special Survey & in accordance with the terms of the Specification. The materials and workmanship are sound and good. The machinery will be eligible in our opinion to have record of + L.M.C (with date) when satisfactorily completed on board, and when the spare gear has been checked, the pumping arrangements found in order, & the remaining terms of the specification carried out. These engines have been despatched to Messrs Geo Courtney & Co Ltd Shipbuilders, Lymington, Hants.

The amount of Entry Fee ... £ : : When applied for, 12 MAR 1920; Special fee as agreed with Admiralty £ 9 = =; Donkey Boiler Fee ... £ : : When received, 1-5-19-20; Travelling Expenses (if any) £ : : *FW*

Robert Rae & A.E. Larminer
Engineer Surveyors to Lloyd's Register of Shipping.

Committee's Minute: WE 10 MAR 1920; Assigned: *See Lou Fe. pt. no 10490*



Certificate (if required) to be sent to the Surveyors are requested not to write on or below the space for Committee's Minute.