

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 14 MAY 1930

Date of writing Report 13 May 1930 When handed in at Local Office 13 May 1930 Port of Southampton.  
 No. in Survey held at 6ames. Date, First Survey 2 July 1929 Last Survey 6 May 1930  
 Reg. Book. on the Paddle Ferry Steamer "WILL CROOKS". (Number of Visits 26)  
 Built at 6ames By whom built J. Samuel White & Co. Ltd. Yard No. 1684 When built 1930.  
 Engines made at 6ames. By whom made - do. Engine No. 1684 when made 1930  
 Boilers made at - do. By whom made - do. Boiler No. 1684 when made 1930.  
 Registered Horse Power 186 Owners London County Council. Port belonging to London.  
 Nom. Horse Power as per Rule 190. Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yss.  
 Trade for which Vessel is intended River Thames Ferry at Woolwich.

ENGINES, &c.—Description of Engines 2 Independent inclined type Paddle Engines Revs. per minute 40  
 Dia. of Cylinders 33" Length of Stroke 36" No. of Cylinders 4 (2 Engs) No. of Cranks 2 (2 Engs)  
 Crank shaft, dia. of journals as approved 9 3/4" Crank pin dia. 9 3/4" Crank webs Mid. length breadth 12" Thickness parallel to axis  
 as fitted 9 3/4" Mid. length thickness 6 1/2" Thickness around eye-hole  
 Intermediate Shafts, diameter as approved 9 3/4" Thrust shaft, diameter at collars as per Rule  
 as fitted 9 3/4" Is the tube shaft fitted with a continuous liner  
 Tube Shafts, diameter as per Rule PADDLE Shaft, diameter as fitted 9 3/4" Is the screw shaft fitted with a continuous liner  
 as fitted 9 3/4" Is the after end of the liner made watertight in the  
 Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as fitted  
 propeller boss If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner  
 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 PADDLE SHAFT  
 Length of Bearing in Stern Bush used to and supporting propeller 1-8"  
 PADDLE WHEELS (FLAT ARMS) No. of Blades Material whether Moveable Total Developed Surface sq. feet  
 11-8" Pitch 4 Cast Iron 1-8" 1-8"  
 Feed Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work  
 Bilge Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work  
 Feed Pumps No. and size 8 at 7" x 5" x 12", 1 at 5" x 5" x 6" Pumps connected to the Main Bilge Line No. and size 1 at 7" x 5" x 12", 1 at 5" x 5" x 6"  
 How driven Steam. How driven Steam.  
 Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size  
 Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary  
 Bilge Pumps:—In Engine and Boiler Room 50 2". 10 2" each compartment.  
 In Hold, &c.

Main Water Circulating Pump Direct Bilge Suctions, No. and size 2 2 1/4" Independent Power Pump Direct Suctions to the Engine Room Bilges,  
 No. and size 1 at 2" Are all the Bilge Suction Pipes held and turned well fitted with strum-boxes yss.  
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges No. only.  
 Are all Sea Connections fitted direct on the skin of the ship yss. Are they fitted with Valves or Cocks Both.  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yss. Are the Overboard Discharges above or below the deep water line About 4 ft.  
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel yss. Are the Blow Off Cocks fitted with a spigot and brass covering plate yss.  
 What Pipes are carried through the bunkers How are they protected  
 What pipes pass through the deep tanks Have they been tested as per Rule yss.  
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yss.  
 Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another yss. Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 2620 sq. ft.  
 Is Forced Draft fitted ho. No. and Description of Boilers 2 Gunboat type. 2B Working Pressure 50 lb.  
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? No. Plan to be forwarded on completion of ship  
 IS A DONKEY BOILER FITTED? ho. If so, is a report now forwarded?  
 PLANS. Are approved plans forwarded herewith for Shafting ho Main Boilers ho Auxiliary Boilers Donkey Boilers  
 (If not state date of approval)  
 Superheaters ho. General Pumping Arrangements ho Oil fuel Burning Piping Arrangements

## SPARE GEAR. State the articles supplied:—

2 connecting rod cap end bolts & nuts.  
 2 " " bottom " " "  
 2 main bearing bolts & nuts.  
 1 set of coupling bolts  
 1 " " fuel & high pump valves  
 1 " " piston springs  
 Quantity of assorted bolts & nuts.  
 2m of various sizes.

6 junk ring bolts & nuts.  
 2 radial arms with bushes.  
 1 Plummer block bottom half bush.  
 24 Boiler tubes (plain)  
 36 Condenser tubes & 72 Terminals.  
 and a quantity of additional spares  
 of various kinds.

The foregoing is a correct description,  
 For J. Samuel White & Company Ltd.

R. D. Cowling  
 Managing Director.

Manufacturer.



© 2021

Lloyd's Register  
 Foundation

01619-01627-0134



1929 July 2. 15. 26. Sept 12. Oct 7. 15. 21. 25. Nov. 8. 13. 19.

During progress of  
work in shops - -

Dates  
of Survey  
while  
building

During erection on  
board vessel - - -

1929 Dec. 5. 13. 17. 23.

1930 Jan 3. 13. 15. 21. 28. 30.

Feb 3. 4. 12.

May 2. 6.

Total No. of visits 26

Dates of Examination of principal parts—Cylinders 2.7.29 - 7.10.29. Slides 12.9.29 Covers 15.7.29 - 7.10.29.

Pistons 15.10.29. Piston Rods 2.7.29. - 7.10.29 Connecting rods 2.7.29 - 7.10.29

Crank shaft 15.7.29 Thrust shaft ✓ Intermediate shafts 2.7.29.

Tube shaft ✓ PADDLE ✓ Shaft 15.7.29 - 2.7.29. Propeller ✓

Stern tube ✓ Engine and boiler seatings 2.10.29. Engines holding down bolts 15.1.30

Completion of pumping arrangements 4.2.30 Boilers fixed 30.12.29. Engines tried under steam 12.2.29.

Main boiler safety valves adjusted 4.2.30. Thickness of adjusting washers For P 3 1/8" 5 1/32" AFT P 1 1/8" 5 1/32"

Crank shaft material S.M. Steel Identification Mark No 3555. 356 Thrust shaft material ✓ Identification Mark ✓

Intermediate shafts, material S.M. Steel Identification Marks No 3555A. 356 Thrust shaft, material ✓ Identification Mark ✓

PADDLE ✓ Shaft, material S.M. Steel Identification Mark No 3555B. 356 Steam Pipes, material Steel Test pressure 150 lb Date of Test 13.1.30

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 the Rules for carrying and burning oil fuel 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 engines and boilers of this vessel have been constructed in general accordance with the approved plans and the requirements of the Rules; they have been efficiently installed on board and tested with satisfactory results. The workmanship and materials are good. The machinery is eligible, in our opinion, for classification with the notation + L.M.C. 5.30.

It is submitted that  
this vessel is eligible for  
THE RECORD. + L.M.C. 5.30. F.D.

1575730  
J.M.C.

Certificate to be sent to

The amount of Entry Fee ... £ 3 : - : When applied for,  
Special ... £ 46 : 10 : 12/1 19 30  
Donkey Boiler Fee ... £ : : When received,  
Travelling Expenses (if any) £ 3 : 5 : 2.7.19 30

J. McEneaney & L. R. Horn  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 16 MAY 1930

Assigned

+ L.M.C. 5.30 J.D.

CERTIFICATE WRITTEN



© 2021  
Lloyd's Register  
Foundation