

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 28.12.37 When handed in at Local Office 28.12.37 Port of HULL
 No. in Survey held at Hull Date, First Survey 28th Sept. 1937 Last Survey 22nd Dec. 1937
 Reg. Book. 17915 on the Steam Trawler "KINGSTON AGATE" (Number of Visits 22)
 Built at Beverly By whom built W. & J. Hemmell & Co. Ltd. Yard No. 640 Tons { Gross 463.67 Net 167.91
 Engines made at Hull By whom made G. D. Holmes & Co. Ltd. Engine No. 1530 When made 1937
 Boilers made at Hull By whom made G. D. Holmes & Co. Ltd. Boiler No. 1530 When made 1937
 Registered Horse Power 155 Owners Kingston Steam Trawling Co., Ltd. Port belonging to Hull
 Nom. Horse Power as per Rule 155 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 Trade for which Vessel is intended Fishing

ENGINES, &c.—Description of Engines Reciprocating Triple Expansion Revs. per minute ✓
 Dia. of Cylinders 14"-24"-40" Length of Stroke 26" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 7.916 Crank pin dia. 8 1/8" Crank webs Mid. length breadth 5 1/4" Thickness parallel to axis 5 1/4"
as fitted 8 1/8" Mid. length thickness 5 1/4" shrunk Thickness around eye-hole 3 9/16"
 Intermediate Shafts, diameter as per Rule 7.539 Thrust shaft, diameter at collars as per Rule 7.916
as fitted 7 1/4" as fitted 8 1/8"
 Tube Shafts, diameter as per Rule 8.4" Screw Shaft, diameter as per Rule 8 1/8" Is the { lube } shaft fitted with a continuous liner { Yes }
as fitted 8 1/8" as fitted 8 1/8" { screw }
 Bronze Liners, thickness in way of bushes as per Rule 5.39 Thickness between bushes as per Rule 4.05 Is the after end of the liner made watertight in the
as fitted 19/32" as fitted 19/32" propeller boss Yes 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 ✓ Is an approved Oil Gland or other appliance fitted at the after end of the tube
 shaft No If so, state type ✓ Length of Bearing in Stern Bush next to and supporting propeller 40"
 Propeller, dia. 10'4" Pitch 10'6" No. of Blades 4 Material Cast iron whether Moveable No Total Developed Surface 39 1/4 sq. feet
 Feed Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 15" Can one be overhauled while the other is at work Yes
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 15" Can one be overhauled while the other is at work Yes
 Feed Pumps { No. and size Two 7"x5"x6" Pumps connected to the { No. and size Two 7"x5"x6"
 { How driven Steam Main Bilge Line { 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 2 at 2" diameter. In Pump Room 5 at 2" diameter.

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 4 3/4" dia. Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size One 3" dia. ejector Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes
 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 Yes
 Are all Sea Connections fitted direct on the skin of the ship Yes 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 Yes Are the Overboard Discharges 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 pass through the bunkers Forward suction How are they protected Wood casings
 What pipes pass through the deep tanks ✓ Have they been tested as per Rule ✓
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
 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 Yes Is the Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓

MAIN BOILERS, &c.—(Letter for record 3) Total Heating Surface of Boilers 2440 square feet
 Is Forced Draft fitted Yes No. and Description of Boilers One Single Ended Return Tube Working Pressure 225 lbs/sq. in.
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 IS A DONKEY BOILER FITTED? ✓ If so, is a report now forwarded? ✓
 Is the donkey boiler intended to be used for domestic purposes only ✓

PLANS. Are approved plans forwarded herewith for Shafting ✓ Main Boilers Yes Auxiliary Boilers ✓ Donkey Boilers ✓
 (If not state date of approval)
 Superheaters Yes General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements ✓

SPARE GEAR.

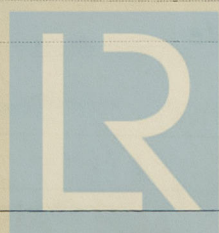
Has the spare gear required by the Rules been supplied Yes.
 State the principal additional spare gear supplied Yes.

One set air pump valves.
One safety valve spring
One spare donkey check valve & seat for main boiler
One spare main check valve & seat for main boiler
One impeller & shaft for centrifugal pump.
Two valves for donkey pump
One brass feed pump plunger, gland & neck ring
Two brass condenser ferrules
Three Condenser Tubes.

The foregoing is a correct description.

FOR CHARLES D. HOLMES & CO., LTD.

Manufacturer.



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Lloyd's Register
Foundation

003467-003473-0096

During progress of work in shops - - 1937: - Sept. 28. Oct. 7. 15. 18. 29. 29.
Dates of Survey while building During erection on board vessel - - - Nov. 1. 5. 11. 15. 17. 18. 19.
Dec. 6. 8. 9. 10. 13. 14. 15. 18. 22.
Total No. of visits 22.

Dates of Examination of principal parts—Cylinders 11. 11. 37 Slides 18. 11. 37 Covers 18. 11. 37
Pistons 18. 11. 37 Piston Rods 11. 11. 37 Connecting rods 17. 11. 37.
Crank shaft 29. 10. 37 Thrust shaft 28. 9. 37. Intermediate shafts 1. 11. 37.
Tube shaft Screw shaft 28. 9. 37. 7. 10. 37. Propeller 29. 10. 37.
Stern tube 29. 10. 37. Engine and boiler seatings 5. 11. 37. Engines holding down bolts 9. 12. 37.
Completion of fitting sea connections 5. 11. 37.
Completion of pumping arrangements 18. 12. 37. Boilers fixed 9. 12. 37. Engines tried under steam 18. 12. 37.
Main boiler safety valves adjusted 18. 12. 37. Thickness of adjusting washers $F = \frac{3}{8}$ " $A = \frac{1}{32}$ " SUPERHEATER: $\frac{1}{2}$ ".
Crank shaft material Steel Identification Mark 1113 Thrust shaft material Steel Identification Mark 1113.
Intermediate shafts, material Steel Identification Marks 1113 Tube shaft, material Identification Mark
Screw shaft, material Steel Identification Mark 1113. Steam Pipes, material S.D. Steel Test pressure 675 lbs/sq. Date of Test 15. 12. 37.
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 the use of oil as fuel been complied with

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo No If so, have the requirements of the Rules been complied with ✓

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have 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 of this vessel has been built under Special Survey and the materials & workmanship are sound & good.

It has been satisfactorily fitted on board, tried under steam & found good

It is eligible in my opinion to have record of ∇ LMC 12, 37 CL Spt.

The amount of Entry Fee ... £ 3 : 0 : 0
Special ... £ 38 : 15 : 0
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : : 4/1 19. 38
When applied for, 29 DEC 1937
When received, 4/1 19. 38

J. A. Orle
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

+ Lmb. 12. 37
(Spt.) 32, CL



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