

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

Received at London Office

26 AUG 1936

Date of writing Report *25 AUG 1936* When handed in at Local Office *25 AUG 1936* Port of *HULL*

No. in Survey held at *Hull* Date, First Survey *29th April 1936* Last Survey *19th August 1936*

Reg. Book. *68602* on the *Steel S.S. K. "Ocean Monarch"* (Number of Visits *25*) Tons } Gross *440.47*
 Net *168.17*

Built at *Selly* By whom built *Bochane & Sons Ltd.* Yard No. *1165* When built *1936.8*

Engines made at *Hull* By whom made *Charles D. Holmes & Co. Ltd.* Engine No. *1496* When made *1936*

Boilers made at *Hull* By whom made *Charles D. Holmes & Co. Ltd.* Boiler No. *1496* When made *1936*

Registered Horse Power Owners *Ocean Steam Fishing Co. Ltd.* Port belonging to *Hull*

Nom. Horse Power as per Rule *114* 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 *Triple Expansion Reciprocating* Revs. per minute

Dia. of Cylinders *13 1/2" 24" 39"* Length of Stroke *27"* No. of Cylinders *3* No. of Cranks *3*

Crank shaft, dia. of journals as per Rule *7.65* Crank pin dia. *8.00"* Crank webs Mid. length breadth *15 1/8"* Thickness parallel to axis *5"*
 as fitted *8.00* Mid. length thickness *5"* shrunk Thickness around eye-hole *3 9/16"*

Intermediate Shafts, diameter as per Rule *7.29"* Thrust shaft, diameter at collars as per Rule *7.65"*
 as fitted *7.625"* as fitted *8.00"*

Tube Shafts, diameter as per Rule *8.145"* Is the *lube* shaft fitted with a continuous liner *yes*
 as fitted *8.375"* as fitted *8.375"* Is the *screw* shaft fitted with a continuous liner *yes*

Bronze Liners, thickness in way of bushes as per Rule *17 4/32"* Thickness between bushes as per Rule *13/32"* Is the after end of the liner made watertight in the propeller boss *yes*
 as fitted *18/32"* as fitted *15/32"* 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 *no* Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft *no* Length of Bearing in Stern Bush next to and supporting propeller *36"*

Propeller, dia. *10'3"* Pitch *10'6"* No. of Blades *4* Material *B.I.* whether Moveable *no* Total Developed Surface *40* sq. feet

Feed Pumps worked from the Main Engines, No. *1* Diameter *3"* Stroke *15"* Can one be overhauled while the other is at work *✓*

Bilge Pumps worked from the Main Engines, No. *1* Diameter *3"* Stroke *15"* Can one be overhauled while the other is at work *✓*

Feed Pumps No. and size *one 7x5x6"* Pumps connected to the Main Bilge Line No. and size *one 7x5x6" and 3" dia Ejector*
 How driven *Steam* How driven *Steam*

Ballast Pumps, No. and size *one 2" dia* Lubricating Oil Pumps, including Spare Pump, No. and size *one 2" dia*

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 @ 2" dia* In Holds, &c. *5 @ 2" dia*

Main Water Circulating Pump Direct Bilge Suctions, No. and size *one @ 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 strainers *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 *"S"*) Total Heating Surface of Boilers *2030 sq ft.*

Is Forced Draft fitted *no* No. and Description of Boilers *One Single Boded. R.T. Working Pressure 210#*

IS A REPORT ON MAIN BOILERS NOW FORWARDED? *yes*

IS A DONKEY BOILER FITTED? *no* 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 *✓* General Pumping Arrangements *✓* 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 *air, feed & bilge pump valves.
 main & donkey check valves and seats.
 Impeller for centrifugal pump.
 Impeller shaft for centrifugal pump.*

The foregoing is a correct description,
 FOR CHARLES D. HOLMES & CO., LTD.

Manufacturer.



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If not, state whether, and when, one will be sent

In a Report also sent on the Hull of the ship

The words which do not apply should be deleted.

0614

During progress of work in shops - - 1936: - Apr 29. May 1. 6. 8. 12. 14. 22. 26. June 5. 11. 13. 16. 25. 29.
 During erection on board vessel - - July 10. 14. 21. 28. 30. 31. Aug 6. 7. 8. 12.
 Total No. of visits 25.

Dates of Examination of principal parts - Cylinders 21-7-36 Slides 21-7-36 Covers 21-7-36
 Pistons 21-7-36 Piston Rods 14-7-36 Connecting rods 14-7-36
 Crank shaft 21-7-36 Thrust shaft 10-7-36 Intermediate shafts 10-7-36
 Tube shaft ✓ Screw shaft 11-6-36 Propeller 18-6-36
 Stern tube 18-6-36 Engine and boiler seatings 28-7-36 Engines holding down bolts 31-7-36
 Completion of fitting sea connections 18-6-36
 Completion of pumping arrangements 31-7-36 Boilers fixed 31-7-36 Engines tried under steam 12-8-36
 Main boiler safety valves adjusted 12-8-36 Thickness of adjusting washers F 1 1/32 A 3/8"
 Crank shaft material Steel Identification Mark 1021 Thrust shaft material Steel Identification Mark 1021
 Intermediate shafts, material Steel Identification Marks 1021 Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material Steel Identification Mark 1021 Steam Pipes, material B. Copper Test pressure 420 lb Date of Test 7-8-36
 Is an installation fitted for burning oil fuel No Is the flash point of the oil to be used over 150°F. No

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 Yes. If so, state name of vessel Scally Wyke.

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 and workmanship are sound and good. It has been satisfactorily fitted on board, tried under steam and found in good condition. It is eligible in my opinion, to have record L.M.C. 9,36 CL.

The amount of Entry Fee ... £ 3 : : When applied for,
 Special ... £ 28 : 10 : 25 AUG 1936
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ : : 5 9 36

C. Moffatt.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 28 AUG 1936

Assigned + dmb 8-36
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The Surveyors are requested not to write on or below the space for Committee's Minute.