

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

-6 MAR 1934

Date of writing Report 26. 2. 34. When handed in at Local Office 26. 2. 34 Port of MIDDLESBROUGH.
 No. in Survey held at SOUTH BANK. Date, First Survey 16 Nov/33 Last Survey 24. 2. 1934.
 Reg. Book. on the steam trawler 'BRIMNES' (Number of Visits)
 Built at South Bank. By whom built Smiths Dock Co. Ltd. Yard No. 965. When built 1934.
 Engines made at do. By whom made do. Engine No. 428 When made 1934.
 Boilers made at W. Hartlepool By whom made Richardson, Westgarth & Co. Boiler No. 228. When made 1933.
 Registered Horse Power Owners Oddsson & Co. Ltd. Port belonging to Hull.
 Nom. Horse Power as per Rule 126.7 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted Ys.
 Trade for which Vessel is intended Fishing

GINES, &c.—Description of Engines Triple Expansion Revs. per minute 130.
 No. of Cylinders 3. Length of Stroke 26". No. of Cranks 3.
 Crank shaft, dia. of journals as per Rule 7.74" as fitted 7.74" Crank pin dia. 8" Crank webs Mid. length breadth 11 1/2" Thickness parallel to axis 4 1/16" shrunk
 Intermediate Shafts, diameter as per Rule 7.37" as fitted 7 1/2" Thrust shaft, diameter at collars as per Rule 7.74" as fitted 7 1/8"
 Main Shafts, diameter as per Rule 8.18" as fitted 8 1/2" Is the screw shaft fitted with a continuous liner Ys.
 Bronze Liners, thickness in way of bushes as per Rule 9.16" as fitted 9 1/16" Thickness between bushes as per Rule 9 1/16" Is the after end of the liner made watertight in the propeller boss Ys.
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Ys.
 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 Ys.
 two liners are fitted, is the shaft lapped or protected between the liners Ys. Is an approved Oil Gland or other appliance fitted at the after end of the tube Ys.
 Length of Bearing in Stern Bush next to and supporting propeller 3'-3".
 Propeller, dia. 9'-9" Pitch 10'-3" No. of Blades 4. Material C.I. whether Moveable no. Total Developed Surface 38 1/2 sq. feet
 Main Engines, No. 1 Diameter 3'- Stroke 13 1/2" Can one be overhauled while the other is at work Ys.
 Main Engines, No. 1 Diameter 3'- Stroke 13 1/2" Can one be overhauled while the other is at work Ys.
 No. and size 1-6" x 3 1/2" x 6" 1-6" x 4" x 6" DUPLEX. Pumps connected to the Main Bilge Line No. and size 1-6" x 4" x 6" DUPLEX.
 How driven STEAM. How driven STEAM.
 Lubricating Oil Pumps, including Spare Pump, No. and size Ys.
 Are two independent means arranged for circulating water through the Oil Cooler Ys. Suctions, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room 2-2" In Holds, &c. 1-2" FOR STORE; 2-2 1/2" SLUDGE TANKS.
 Pump Room

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1-4" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1-2 1/2" EJECTOR.
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Ys.
 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 Ys.
 Are all Sea Connections fitted direct on the skin of the ship Ys. 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 Ys. 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 Ys. Are the Blow Off Cocks fitted with a spigot and brass covering plate Ys.
 What Pipes pass through the bunkers Which & Windan Steam pipes. How are they protected Lagging & wood casings.
 What pipes pass through the deep tanks Have they been tested as per Rule Ys.
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Ys.
 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 Ys. Is the Shaft Tunnel watertight none Is it fitted with a watertight door Ys. worked from Ys.

MAIN BOILERS, &c.—(Letter for record S. Total Heating Surface of Boilers 2335 sq. ft. Working Pressure 225 lbs.
 Is Forced Draft fitted no. No. and Description of Boilers 183.
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Ys.
 IS A DONKEY BOILER FITTED? no. If so, is a report now forwarded? Ys.
 Is the donkey boiler intended to be used for domestic purposes only Ys.
 PLANS. Are approved plans forwarded herewith for Shafting Ys. Main Boilers Auxiliary Boilers Donkey Boilers
 (If not state date of approval)
 Superheaters Ys. General Pumping Arrangements 7.3.33. Oil fuel Burning Piping Arrangements Ys.

SPARE GEAR.

Has the spare gear required by the Rules been supplied Ys.
 State the principal additional spare gear supplied 1 C.I. propeller; 1 safety valve opening; 1 opening for each escape valve;
 1 main & 1 donkey check valve lid, 1 set air pump valves; 6 piston bolts & nuts; 3 boiler &
 3 condenser tubes.

The foregoing is a correct description,

FOR SMITH'S DOCK CO. LTD.

Manufacturer.

Engine Works Manager.

003679-003686-0036

Foundation

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits

1933 Oct 11 20 Nov 16 21 29 Dec 4 8 13 19 24 1934 Jan 5 9
10 12 15 16 17 18 22 23 24 25 Feb 1
Feb 7 9 13 15 22 23 24
30

Dates of Examination of principal parts—Cylinders 30. 10. 33 Slides 30. 10. 33 Covers 30. 10. 33
Pistons 13. 11. 33. Piston Rods 21. 11. 33 Connecting rods 21. 11. 33
Crank shaft 30. 10. 33. Thrust shaft 13. 10. 33 Intermediate shafts 13. 10. 33.
Tube shaft ✓ Screw shaft 13. 10. 33. Propeller 27. 11. 33.
Stern tube 19. 12. 33. Engine and boiler seatings 23. 1. 34. Engines holding down bolts 7. 2. 34
Completion of fitting sea connections 1. 2. 34.
Completion of pumping arrangements 23. 2. 34. Boilers fixed 7. 2. 34. Engines tried under steam 15. 2. 34.
Main boiler safety valves adjusted 15. 2. 34 Thickness of adjusting washers both $\frac{11}{32}$ Superheate $\frac{23}{64}$
Crank shaft material S.M. Steel Identification Mark 1310.33 C.R.R. Thrust shaft material S.M. Steel Identification Mark 1310.33 C.R.R.
Intermediate shafts, material S.M. Steel Identification Marks 1310.33 C.R.R. Tube shaft, material ✓ Identification Mark ✓
Screw shaft, material S.M. Steel Identification Mark 1310.33 C.R.R. Steam Pipes, material Steel Test pressure 67 lbs. Date of Test 13. 2. 34
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 Yes (main engine). If so, state name of vessel "ARSENAL"

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

The materials and workmanship are good.
This machinery has been built under special survey in accordance with the Rules and approved Plans. It has been securely fitted aboard and tested with satisfactory results under steam and is, in my opinion, eligible for classification with read + L.M.C. 2. 34.

The amount of Entry Fee ... £ 3-0-0
Special Less Boiler ... £ 16-3-0
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) £ :
When applied for, 5. 3. 1934
When received, 11. 5. 34

P. J. Mac...
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 9 MAR 1934

FRI. 27 APR 1934

Assigned

+ L.M.C. 2. 34

CERTIFICATE WRITTEN



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