

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

20 JUN 1930

Date of writing Report 5. 6. 1930 When handed in at Local Office 6. 6. 1930 Port of MIDDLESBROUGH.  
 No. in Survey held at SOUTH BANK. Date, First Survey 7 March Last Survey 5. 6. 1930  
 Reg. Book. on the Stm Trawler "DAILY MAIL" (Number of Visits 386)  
 Built at SOUTH BANK. By whom built S. Smiths Dock Co. Ltd. Yard No. 915. Tons { Gross 386  
 Engines made at do. By whom made do. Engine No. 382. when made 1930 Net 165  
 Boilers made at STOCKTON. By whom made Blair & Co (1926) Ltd Boiler No. C. 825. when made 1930  
 Registered Horse Power 114 Owners The Boston Deep Sea Fishing & Ice Co. Ltd. Port belonging to Fleetwood  
 Nom. Horse Power as per Rule 114.4 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted Y.

ENGINES, &c.—Description of Engines Triple Expansion

Dia. of Cylinders 13 1/4", 23", 39" Length of Stroke 27" Revs. per minute 115. No. of Cylinders 3. No. of Cranks 3.  
 Dia. of Crank shaft journals as per rule 7.6" as fitted 7 3/4" Dia. of Crank pin 7 3/4" Crank webs Mid. length breadth 11 1/2" Thickness parallel to axis 4 1/16"  
 Diameter of Thrust shaft under collars as per rule 7.6" as fitted 7 3/4" Diameter of Tunnel shaft as per rule 7.24" as fitted nil Diameter of Screw shaft as per rule 8.11" as fitted 8 1/4" Is the Screw shaft  
 fitted with a continuous liner the whole length of the stern tube Y. Is the after end of the liner made watertight in the propeller boss Y.  
 If the liner is in more than one length are the joints burned Y. If the liner does not fit tightly at the part  
 between the bearings in the stern tube, is the space charged with plastic material insoluble in water and non-corrosive Y.  
 If two liners are fitted, is the shaft lapped or protected between the liners Y. Is an approved appliance fitted at the after end of the shaft to permit  
 of it being efficiently lubricated Y. Length of Stern Bush 3'-0 1/2" Diameter of Propeller 10'-6"  
 Pitch of Propeller 10'-0" No. of Blades 4 State whether Moveable no. Total Surface 40. square feet.  
 No. of Feed Pumps fitted to the Main Engines 2. Diameter of ditto 3" Stroke 13 1/2" Can one be overhauled while the other is at work Y.  
 No. of Bilge Pumps fitted to the Main Engines 2. Diameter of ditto 3" Stroke 13 1/2" Can one be overhauled while the other is at work Y.  
 Total number and size of power driven Feed and Bilge Auxiliary Pumps 1-6" x 4 1/4" x 6" Duplex Feeds. 1-6" x 4 1/4" x 6" Duplex Bilge  
 No. and size of Pumps connected to the Main Bilge Line 1-6" x 4 1/4" x 6" Duplex.  
 No. and size of Ballast Pumps 1-6" x 4 1/4" x 6" No. and size of Lubricating Oil Pumps, including Spare Pump Y.  
 Are two independent means arranged for circulating water through the Oil Cooler Y. No. and size of suction connected to both Main Bilge Pumps and Auxiliary  
 Bilge Pumps;—In Engine and Boiler Room 2-2" and in Holds, &c. 1-2" in Forward Store;  
1-2 1/2" in Slush Tank; 1-2 1/2" in Slush Tank direct to Bilge Ejector

No. and size of Main Water Circulating Pump Bilge Suctions 1-4" No. and size of Donkey Pump Direct Suctions  
 to the Engine Room Bilges 1-2" Are all the Bilge Suction Pipes in holds and tanks fitted with strum-boxes Y.  
 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 Y.  
 Are all connections with the sea direct on the skin of the ship Y. Are they Valves or Cocks both  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Y. Are the Discharge Pipes above or below the deep water line above  
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Y. Are the Blow Off Cocks fitted with a spigot and brass covering plate Y.  
 What Pipes are carried through the bunkers Forward Bilge Suctions How are they protected Wood ceiling  
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Y.  
 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 Y. Is the Screw Shaft Tunnel watertight no Is it fitted with a watertight door Y. worked from Y.

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 2075 sq. ft.

Is Forced Draft fitted no No. and Description of Boilers 188. Working Pressure 200 lbs

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Y.IS A DONKEY BOILER FITTED? no If so, is a report now forwarded? Y.

PLANS. Are approved plans forwarded herewith for Shafting Y. Main Boilers Y. Auxiliary Boilers Y. Donkey Boilers Y.  
 (If not state date of approval)

General Pumping Arrangements 17.1.30. Oil fuel Burning Piping Arrangements Y.

SPARE GEAR. State the articles supplied:—As per Rules + 1 C.D. Propeller, 10ct Air Pump Valve,  
1 main check valve lid; 1 donkey check valve lid, 1 safety valve spring, 3 escape valve springs,  
1 set valve for each donkey pump, 6 piston balls & nuts, 3 boiler tube, 3 condenser tube,  
20 condenser ferrules, quantities fire bars, gauge glasses & washers.

FOR SMITH'S BOOK COMPANY, LTD.

The foregoing is a correct description,

J. D. Steens

Works Manager.

Manufacturer.

29/5/30



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Lloyd's Register  
Foundation

W647-0235



During progress of work in shops -- 1930. Mar. 7 14. 18. 27 April 3 5. 10. 16. 22. 25  
 Dates of Survey while building During erection on board vessel -- May 1. 5. 7. 9. 27 June 5.  
 Total No. of visits.

Dates of Examination of principal parts -- Cylinders 14. 3. 30 Slides 22. 4. 30.  
 Covers 14. 3. 30 Pistons 14. 3. 30 Rods 7. 3. 30.  
 Connecting rods 3. 4. 30 Crank shaft 27. 3. 30 Thrust shaft 27. 3. 30.  
 Tunnel shafts ✓ Screw shaft 16. 4. 30 Propeller 16. 4. 30.  
 Stern tube 16. 4. 30 Engine and boiler seatings 22. 4. 30. Engines holding down bolts 5. 5. 30.  
 Completion of pumping arrangements 27. 5. 30. Boilers fixed 5. 5. 30. Engines tried under steam 27. 5. 30.  
 Completion of fitting sea connections 22. 4. 30 Stern tube 22. 4. 30. Screw shaft and propeller 5. 5. 30.  
 Main boiler safety valves adjusted 27. 5. 30. Thickness of adjusting washers p. 32 s 16  
 Material of Crank shaft S.M. Steel Identification Mark on Do. LLOYDS No 629 J.H. 20.2.30.  
 Material of Thrust shaft S.M. Steel Identification Mark on Do. LLOYDS No 678 J.H. 20.2.30.  
 Material of Tunnel shafts ✓ Identification Marks on Do. LLOYDS No 679 J.H. 20.2.30.  
 Material of Screw shafts S.M. Steel Identification Marks on Do. LLOYDS No 679 J.H. 20.2.30.  
 Material of Steam Pipes Copper. Test pressure 400 lbs. Date of Test 19. 5. 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 material and workmanship are good.  
 This machinery has been built under special survey in accordance with the Rules and Approved Plans, securely fitted aboard and tried under steam with satisfactory results.  
 In my opinion, it is eligible for classification with record + L.M.C. 6.30.

It is submitted that  
 this vessel is eligible for  
 THE RECORD. + L.M.C. 6.30 C-L.

J. 23/6/30.

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

The amount of Entry Fee ... £ 3-0-0 When applied for, 19. 6. 19. 30  
 Special ~~len~~ boiler... £ 14-14-0  
 Donkey Boiler Fee ... £ : : When received, 1. 7. 30  
 Travelling Expenses (if any) £ : :

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

Committee's Minute TUE. 24 JUN 1930

Assigned

+ L.M.C. 6.30

CERTIFICATE WRITTEN.



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