

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 5 OCT 1939

Port of **SUNDERLAND**
 Date, First Survey **May 4** Last Survey **Sep 28 1939**
 (Number of Visits **68**)
 Survey held at **SUNDERLAND**
 on the **CORMARSH**
 at **Barnstaple** By whom built **Barnstaple S.B. Co. Ltd.** Yard No. **231** When built **1939**
 Engines made at **Sunderland** By whom made **R.E. Marine Eng. Co. (1938)** Engine No. **2943** When made **1939**
 Boilers made at **do.** By whom made **do.** Boiler No. **do.** When made **do.**
 Registered Horse Power **244** Owners **Long Colliers. Ltd** Port belonging to **London**
 Is Refrigerating Machinery fitted for cargo purposes **no** Is Electric Light fitted **yes**
 Horse Power as per Rule **244**
 Use for which Vessel is intended **Coal**

FINES, & Co.—Description of Engines **Triple expansion with poppet valves on H.P. & I.P.** Revs. per minute
 No. of Cylinders **3** No. of Cranks **3**
 Length of Stroke **39"** Mid. length breadth **—** Thickness parallel to axis **6 1/2" x 7"**
 Crank pin dia. **1 1/4"** Crank webs **—** Mid. length thickness **—** Thickness around eye-hole **5 1/2" x 5 1/8"**
 Thrust shaft, diameter at collars **1 1/4"**
 Is the (tube) shaft fitted with a continuous liner **no**
 Is the after end of the liner made watertight in the
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner
 Is an approved Oil Gland or other appliance fitted at the after end of the tube
 Length of Bearing in Stern Bush next to and supporting propeller **4'-3"**
 No. of Blades **4** Material **C.I.** whether Moveable **not** Total Developed Surface **91** sq. feet
 Can one be overhauled while the other is at work **yes**
 Can one be overhauled while the other is at work **yes**
 Lubricating Oil Pumps, including Spare Pump, No. and size **—**
 Suctions, connected to both Main Bilge Pumps and Auxiliary
 Engine Rm. with **1 @ 2 1/2" dia.**; Boiler Rm. **2 @ 2 1/2" dia.**
 In Holds, &c. **No. 1. 1 @ 2 1/2" dia.**; **No. 2. 1 @ 3" dia.**

Water Circulating Pump Direct Bilge Suctions, No. and size **1 @ 6" dia.** Independent Power Pump Direct Suctions to the Engine Room Bilges,
 and size **1 @ 4" dia.** Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes **yes**
 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 they fitted with Valves or Cocks **yes**
 Are the Overboard Discharges above or below the deep water line **above**
 Are the Blow Off Cocks fitted with a spigot and brass covering plate **—**
 How are they protected **—**
 Have they been tested as per Rule **—**
 Are they accessible at all times **yes**
 Is the Shaft Tunnel watertight **—** Is it fitted with a watertight door **—** worked from **—**

MAIN BOILERS, & Co.—(Letter for record **3**) Total Heating Surface of Boilers **3396 sq. ft.**
 Which Boilers are fitted with Forced Draft **both** Which Boilers are fitted with Superheaters **both**
 and Description of Boilers **2. Cylindrical multitubular** Working Pressure **220 lbs.**
A REPORT ON MAIN BOILERS NOW FORWARDED? **yes**
A DONKEY BOILER FITTED? **no** If so, is a report now forwarded? **—**
 The donkey boiler be used for domestic purposes only **—**

ANS. Are approved plans forwarded herewith for Shafting **16/5/39** Main Boilers **yes** Auxiliary Boilers **—** Donkey Boilers **—**
 (If not state date of approval)
 General Pumping Arrangements **yes** Oil fuel Burning Piping Arrangements **—**
SPARE GEAR.
 The spare gear required by the Rules been supplied **yes**
 The principal additional spare gear supplied **—**

The foregoing is a correct description.
 THE NORTH EASTERN MARINE ENGINEERING CO. (1938) LTD
J. H. L. L. Manufacturer.
 RESIDENT MANAGER.



1939. May. 4, 5, 11, 15, 22, 25, 26, 27, 30. June 1, 5, 10, 13, 14, 16, 19, 20, 22, 23, 26, 27, 28, 29, 30, June 1. Aug. 9, 10, 11, 12, 15, 17, 18, 21, 23, 24, 25, 28, 29, 30, Sep. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Oct. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Nov. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, Dec. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31.

Dates of Survey while building
 During progress of work in shops --
 During erection on board vessel ---
 Total No. of visits 68

Dates of Examination of principal parts—Cylinders 9/15/8/39 Slides 23/28/8/39 Covers 29/8/39
 Pistons 21/7/39 Piston Rods 9/8/39 Connecting rods 9/8/39
 Crank shaft 25/7/39 Thrust shaft 26/7/39 Intermediate shafts ---
 Tube shaft --- Screw shaft 28/7/39 Propeller 28/7/39
 Stern tube 2/8/39 (Lith) Engine and boiler seatings 10/8/39 (Lith) Engines holding down bolts 13/9/39
 Completion of fitting sea connections 18/8/39 (Lith)
 Completion of pumping arrangements --- Boilers fixed 7/9/39 Engines tried under steam 26/9/39
 Main boiler safety valves adjusted 26/9/39 Thickness of adjusting washers Std. 5/16" port, 9/32" std. 15/16" std. 9/32"
 Crank shaft material Steel Identification Mark 1478 Thrust shaft material Steel Identification Mark 1597
 Intermediate shafts, material --- Identification Marks --- Tube shaft, material --- Identification Mark ---
 Screw shaft, material Steel Identification Mark 1596 Steam Pipes, material Steel Test pressure 660 lb. Date of Test 20.9.39
 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 not required.
 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 constructed under Special Survey in accordance with the approved plans, Secretary's letter and the requirements of the Rules. Workmanship and materials are good. The machinery has been tried under working conditions with satisfactory results. The machinery will be eligible, in my opinion, for the

Notation + L. M. C. (9) 39

When the ballast pumping arrangements have been completed it is intended to do this at Lith to which port the vessel is now proceeding.

L. D. Home

The amount of Entry Fee ... £ 4 : - :
 Special ... £ 61 : - :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 29 SEP 1939
 When received, 14/10/39 28/13/11

Engineer Surveyor to Lloyd's Register of Shipping

TUE. 7 NOV 1939

Committee's Minute

Assigned Lamb 10.39
 Mt. J.D., O.G.



SUNDERLAND.

The Surveyors are requested not to write on or below the space for Committee's Minute.

Particulate to be sent to