

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 15/10/1940 When handed in at Local Office 16/10/1940 Port of MIDDLESBROUGH
 Received at London Office OCT 29 1940
 No. in Survey held at Haverston Hill Date, First Survey 17/1/40 Last Survey 15/10/1940
 Reg. Book. on the "L.C. 10" (SALVAGE LIGHTER.) J.4220. (Number of Visits 14)
 Built at Haverston Hill By whom built Furness S. B. & Co Ltd Yard No. 336 Tons { Gross 918.22
 Engines made at - By whom made - Engine No. 6442 when made - Net 814.30
 Boilers made at Stockton on Tees By whom made Stockton C. E. & R. Blox Boiler No. 56443 when made 1940
 Registered Horse Power - Owners Admiralty Port belonging to Hartlepool
 Nom. Horse Power as per Rule - Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted Yes
 Trade for which Vessel is intended Salvage

ENGINES, &c.—Description of Engines

Dia. of Cylinders _____ Length of Stroke _____ No. of Cylinders _____ Revs. per minute _____
 Crank shaft, dia. of journals _____ as per Rule _____ Crank pin dia. _____ No. of Cranks _____
 Intermediate Shafts, diameter _____ as per Rule _____ Thrust shaft, diameter at collars _____ as per Rule _____
 Tube Shafts, diameter _____ as per Rule _____ Screw Shaft, diameter _____ as per Rule _____
 Bronze Liners, thickness in way of bushes _____ as per Rule _____ Thickness between bushes _____ as per Rule _____
 Propeller, dia. _____ Pitch _____ No. of Blades _____ Material _____ whether Moveable _____ Total Developed Surface _____ sq. feet
 Feed Pumps worked from the Main Engines, No. _____ Diameter _____ Stroke _____ Can one be overhauled while the other is at work _____
 Bilge Pumps worked from the Main Engines, No. _____ Diameter _____ Stroke _____ Can one be overhauled while the other is at work _____
 Feed Pumps { No. and size 7x5x12" (Duplex) Pumps connected to the _____ No. and size 4x4x5" (Duplex)
 How driven Steam Main Bilge Line How driven Steam
 Ballast Pumps, No. and size 1-Centrifugal 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 Room Boiler Room 6-2"
 In Tanks, &c. NIL

BALLAST

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1-8" Independent Power Pump Direct Suctions to the Engine Room Bilges,
 No. and size 1-3" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes
 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
 Are all Sea Connections fitted direct on the skin of the ship Blowdown only 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 Both
 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 How are they protected
 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 1070 sq ft
 Is Forced Draft fitted No No. and Description of Boilers 2-Vertical Multitubular Working Pressure 130 lbs/sq in
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? No
 IS A DONKEY BOILER FITTED? No
 PLANS. Are approved plans forwarded herewith for Shafting Boilers 12/2/40 Auxiliary Boilers Donkey Boilers
 Superheaters _____ General Pumping Arrangements 29/8/40 Oil fuel Burning Piping Arrangements _____

SPARE GEAR. State the articles supplied:—1 set air pump valves; 1 set of valves each size used for the liquid end of each independent pump; 1 set of circulating pump valves; 1 valve for main feed check for boiler; 1 impeller & shaft for ballast pump; 12 boiler tube stopper complete; set of five saws for 11 pound; a quantity of assorted bolts, studs & nuts; steel bars & plates of various sizes.

The foregoing is a correct description,
J. M. Govern
 Director

Manufacturer.



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 Foundation

During progress of work in shops - -
 Dates of Survey while building
 During erection on board vessel - - -
 Total No. of visits **14**

July 17. Aug. 23. 30. Sept. 3. 5. 12. 13. 16. 19. 24. Oct 2. 4. 12. 15

Dates of Examination of principal parts—Cylinders - Slides - Covers -
 Pistons - Piston Rods - Connecting rods -
 Crank shaft - Thrust shaft - Intermediate shafts -
 Tube shaft - Screw shaft - Propeller -
 Stern tube - Engine and Boiler seatings **17/7/40** Engines holding down bolts -
 Completion of fitting sea connections **16/8/40**
 Completion of pumping arrangements **2/10/40** Boilers fixed **19/9/40** Engines tried under steam -
 Main boiler safety valves adjusted **24/9/40** Thickness of adjusting washers **P 1/4" S 7/32"** **STARBD S 1/4"**
 Crank shaft material - Identification Mark - Thrust shaft material - Identification Mark -
 Intermediate shafts, material - Identification Marks - Tube shaft, material - Identification Mark -
 Screw shaft, material - Identification Mark - Steam Pipes, material **50 copper** Test pressure **260 lbs** Date of Test **3-19/9/40**
 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 machinery of this vessel has been constructed under Special Survey & in accordance with the approved plan. The materials & workmanship are good. The machinery examined, & found working satisfactorily & eligible in my opinion to have a record of +NB10,40 (Non Propelling Salvage Fighter)*

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

The amount of Entry Fee	£ 25 : 0 : 0	When applied for,
Special	£ : : :	25-9-1940
Donkey Boiler Fee	£ : : :	When received,
Travelling Expenses (if any)	£ : : :	19

R. J. Eastrope
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned *See Mdb. J.C. 16912*
8 + N.B (2) 10.40 - 13008