

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 27 MAY 1942 22 OCT 1942

Date of writing Report 22.5.1942. When handed in at Local Office 27 MAY 1942 Port of Spidwich.

No. in Survey held at Beech. Date, First Survey 25-3-42 Last Survey 18-5-1942
 Reg. Book. on the sham lighter "VIC 10" (Number of Visits 24)

Built at Thorn By whom built Dunston Ltd. Yard No. 381 Tons ^{Gross} _{Net}
 Engines made at Beech By whom made Elliott & Laroock Ltd. Engine No. 657 When built 1942
 Boilers made at By whom made Boiler No. When made
 Registered Horse Power Owners Port belonging to
 Nom. Horse Power as per Rule 6.9 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
 Trade for which Vessel is intended

ENGINES, &c.—Description of Engines Compound Reciprocating Revs. per minute 150
 Dia. of Cylinders 10 1/2" 22" Length of Stroke 14" No. of Cylinders Two No. of Cranks Two
 Crank shaft, dia. of journals as per Rule 4 3/8" Crank pin dia. 4 3/8" Crank webs Mid. length breadth Thickness parallel to axis 2 7/8"
 as fitted 4 3/8" Mid. length thickness Thickness around eye-hole 2"
 Intermediate Shafts, diameter Thrust shaft, diameter at collars as per Rule 4.26
 as fitted as fitted 4 3/8"
 Tube Shafts, diameter Screw Shaft, diameter as per Rule 4 7/8" Is the shaft filled with a continuous liner
 as fitted as fitted 4 7/8"
 Bronze Liners, thickness in way of bushes Thickness between bushes Is the after end of the liner made watertight in the
 propeller boss 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 Is an approved Oil Gland or other appliance fitted at the after end of the tube
 a t If so, state type Length of Bearing in Stern Bush next to and supporting propeller 20"
 Propeller, dia. 66" Pitch 86" No. of Blades 4 Material C.I. whether Moveable Total Developed Surface 11.6 sq. feet
 Feed Pumps worked from the Main Engines, No. One Diameter 2 1/8" Stroke 6" Can one be overhauled while the other is at work
 Bilge Pumps worked from the Main Engines, No. One Diameter 2 1/8" Stroke 6" Can one be overhauled while the other is at work
 Feed Pumps { No. and size Pumps connected to the { No. and size
 { How driven Main Bilge Line { How driven
 Ballast Pumps, No. and size Lubricating Oil Pumps, including Spare Pump, No. and size
 Are two independent means arranged for circulating water through the Oil Cooler Suctions, connec d to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room
 In Pump Room In Holds, &c.

Main Water Circulating Pump Direct Bilge Suctions, No. and size **Independent Power Pump Direct Suctions to the Engine Room Bilges,**

 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 Are they fitted with Valves or Cocks
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Overboard Discharges above or below the deep water line
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate
 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
 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 Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers
 Which Boilers are fitted with Forced Draft Which Boilers are fitted with Superheaters
 No. and Description of Boilers Working Pressure
IS A REPORT ON MAIN BOILERS NOW FORWARDED?
IS A DONKEY BOILER FITTED? If so, is a report now forwarded?
 Can the donkey boiler be used for domestic purposes only
PLANS. Are approved plans forwarded herewith for Shafting 28.10.41 Main Boilers 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
 State the principal additional spare gear supplied

The foregoing is a correct description.

A Smith Manufacturer.
Director & Gen. Works Manager



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25-3-42, 30-3-42, 10-4-42, 17-4-42, 4-5-42, 18-5-42.

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - - -
 Total No. of visits *84*.

Dates of Examination of principal parts—Cylinders *4-5-42*. Slides *4-5-42*. Covers *4-5-42*.
 Pistons *4-5-42*. Piston Rods *4-5-42*. Connecting rods *4-5-42*.
 Crank shaft *17-4-42*. Thrust shaft *17-4-42*. Intermediate shafts ✓
 Tube shaft. Screw shaft *18-5-42*. Propeller *18-5-42*.
 Stern tube *18-5-42*. Engine and boiler seatings ✓. Engines holding down bolts ✓
 Completion of fitting sea connections ✓. Boilers fixed ✓. Engines tried under steam ✓
 Completion of pumping arrangements ✓. Thickness of adjusting washers ✓
 Main boiler safety valves adjusted ✓. Crank shaft material *Steel* Identification Mark ✓. Thrust shaft material Identification Mark ✓
 Intermediate shafts, material ✓. Identification Marks ✓. Tube shaft, material Identification Mark ✓
 Screw shaft, material *Steel* Identification Mark ✓. Steam Pipes, material ✓. Test pressure. Date of Test ✓
 Is an installation fitted for burning oil fuel ✓. 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 ✓. 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 *No*. If so, state name of vessel *R. Dunston's Yard No. 379.380.*

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

The machinery has not been constructed in accordance with the requirements of the Society's Rules but has been constructed under the supervision of the Society. The scantlings are in accordance with the Society's Rules. The workmanship is of good description.

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 ... £ : : When applied for,
 Special ... £ *8 : 0 : 0* *27 MAY 1942*
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ : *17 : 11* : 19.....

J. Byrrell
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 30 OCT 1942*
 Assigned *No action*

