

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 7-12-1941 When handed in at Local Office 15 DEC 1941 Port of Ip Swich
 No. in Survey held at Jarmon Date, First Survey 5-8-41 Last Survey 24-11-1941
 Reg. Book. on the Stri Light VIC. III (Number of Visits Four (4))
 Built at Thorn By whom built Richard Dunston, Ltd. Yard No. Tons } Gross
 Engines made at Jarmon By whom made Cabtree (1931) Ltd. Engine No. 627 When built 1941 } Net
 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 shrunk Thickness around eye-hole 2"
 Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as per Rule 2 1/2"
 as fitted as fitted 4 3/8"
 Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule 4 7/8"
 as fitted as fitted 4 7/8" Is the tube } shaft fitted with a continuous liner {
 as fitted as fitted }
 Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as per Rule 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 If so, state type Length of Bearing in Stern Bush neat to and supporting propeller 20"
 Propeller, dia. 66" Pitch 96" 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. 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,**
 No. and size 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 198 ?
 Which Boilers are fitted with Forced Draft Which Boilers are fitted with Superheaters
 No. and Description of Boilers Working Pressure 120 lb ?
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
 Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.
 Has the spare gear required by the Rules been supplied no spare gear supplied
 State the principal additional spare gear supplied

The foregoing is a correct description.
 FOR CABTREE (1931) LTD.
 J. Smith, Sheelov & Co. Works Manager, Manufacturer.

27.10.41

5-8-41, 10-11-41, 24-11-41.

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

Dates of Examination of principal parts—Cylinders 10-11-41 Slides 10-11-41 Covers 10-11-41
Pistons 10-11-41 Piston Rods 10-11-41 Connecting rods 10-11-41
Crank shaft 10-11-41 Thrust shaft 10-11-41 Intermediate shafts ✓
Tube shaft ✓ Screw shaft 10-11-41 Propeller 10-11-41
Stern tube 10-11-41 Engine and boiler seatings ✓ Engines holding down bolts ✓

Completion of fitting sea connections
Completion of pumping arrangements Boilers fixed Engines tried under steam

Main boiler safety valves adjusted Thickness of adjusting washers
Crank shaft material *Steel* Identification Mark ✓ Thrust shaft material *Steel* 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 Ltd. (Engin. No. 626.)*

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.

The amount of Entry Fee ... £ : : When applied for,
Special ... £ 8 : 0 : 0 16/12/41
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ : 17 : 6 19

Byrrell

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 17 FEB 1942

Assigned See minute on Hull F.E



© 2020

Lloyd's Register Foundation

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