

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

13 APR 1949

Date of writing Report 11 Mar 1949 When handed in at Local Office 12 Mar 1949 Port of London
 No. in Survey held at Leamington Berke Date, First Survey 16.12.48 Last Survey 14.2.1949
 Reg. Book 74AB (Number of Visits 9)
 on the Leam Steam Tug
 Built at Bowling By whom built Thos. Scott & Sons Yard No. 388 When built
 Engines made at Leamington By whom made Thos. Plinty & Sons Engine No. 2871 When made 1948/9
 Boilers made at Glasgow By whom made Barclay C & C Boiler No. 47/6 When made 1948/9
 Registered Horse Power 2 x 200 Owners British Tankers Ltd Port belonging to
~~Net Horse Power~~ as per Rule 70 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted
 Trade for which vessel is intended Ocean going

ENGINES, &c.—Description of Engines Twin 2 Cyl compound Surface condensing Revs. per minute 175
 Dia. of Cylinders 11 1/2 x 22 Length of Stroke 16 No. of Cylinders 2 x 2 No. of Cranks 2 x 2
 Crank shaft, dia. of journals as per Rule Crank pin dia. 5" Mid. length breadth 6" Thickness parallel to axis
as fitted 5" Crank webs 3 1/2" shrunk Thickness around eye-hole
as per Rule as approved Thrust shaft, diameter at collars as per Rule as approved
as fitted 4 5/8" as fitted 5"
 Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule as approved
as fitted 5 3/4" Is the shaft fitted with a continuous liner Yes
 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
as fitted as fitted 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
 at Yes "Leamington" Length of Bearing in Stern Bush next to and supporting propeller 1'-11"
 Propeller, dia. 5'-2" Pitch 8'-6" No. of Blades 4 Material Bronze whether Moveable Solid Total Developed Surface 11.5 sq. feet
 Feed Pumps worked from the Main Engines, No. 1 P. 1 S Diameter 2 1/4" Stroke 8" Can one be overhauled while the other is at work
 Bilge Pumps worked from the Main Engines, No. 1 P. 1 S Diameter 2 1/4" Stroke 8" 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, connected both to 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 1. 5" Independent Power Pump Direct Suctions to the Engine and/or Boiler 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 1600 sq ft
 Which Boilers are fitted with Forced Draft Which Boilers are fitted with Superheaters
 No. and Description of Boilers 1. 2 Furnace Scotch return tube Working Pressure 140 lbs sq in
 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 other than domestic purposes
 PLANS. Are approved plans forwarded herewith for Shafting 13.2.47 Main Boilers Auxiliary Boilers Donkey Boilers
 (If not state date of approval) 19.9.47
 Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes
 State the principal additional spare gear supplied

The foregoing is a correct description.

B. Gyles

MANAGING DIRECTOR.

Manufacturer.



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Lloyd's Register
Foundation

011896-04904-012

Dates of Survey while building

During progress of work in shops - - { 1947: July 3, Aug 7, Dec 18 1948: Jan 29 1949: Jan 20, 27, Feb 3, 10, 24

During erection on board vessel - - - {

Total No. of visits 9 (In shops)

Dates of Examination of principal parts - Cylinders 27. 1. 49. Slides 27. 1. 49. Covers 27. 1. 49.
Pistons 3. 2. 49 Piston Rods 3. 2. 49 Connecting rods 3. 2. 49
Crank shaft 10. 2. 49 Thrust shaft 20. 1. 49 Intermediate shafts 20. 1. 49
Tube shaft 17. 2. 49 Screw shaft Propeller 3. 2. 49
Stern tube 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 S. M. Ingot Identification Mark 9676 C.P. 14.5.47 Thrust shaft material S. M. Ingot Identification Mark 1981. V.C.B. 7.9.48
Intermediate shafts, material S. M. Ingot Identification Marks 1955. J.C.B. 7.9.48 Tube shaft, material Identification Mark
Screw shaft, material 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 Yes If so, state name of vessel Eng No. 2870essel 387.

General Remarks (State quality of workmanship, opinions as to class, &c. This pair of handed engines has been built under Special Survey in accordance with the approved plans & the Requirements of the Rules. Steel used in its manufacture has been made at works approved by the Committee & under the supervision of their surveyors. The workmanship is good and the engines are in my opinion eligible to receive the notation of L M C (with date) when satisfactorily installed & tested in the vessel intended. They have now been despatched to Messrs Scotts of Bowling

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 ... £ : : When applied for,
2/5 Special ... £ 11 : 4 : 0 14 MAR 1949
Donkey Boiler Fee ... £ : : When received,
Travelling Expenses (if any) £ 3 : 9 : 6 19.

Date GLASGOW 12 APR 1949

Committee's Minute SEE ACCOMPANYING MACHINERY REPORT.

a. e. Widgeny.
Engineer Surveyor to Lloyd's Register of Shipping.

