

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Writing Report 8/8/51 1951 When handed in at Local Office 8/8/51 Port of London Received at London Office 7E AUG 1952
 Survey held at Bedford Date, First Survey 16th March, 1951 Last Survey 13th July 1951
 Book S.S. BRITISH CROWN (Number of Visits 6)
 on the S.S. BRITISH CROWN Tons {Gross
 at Swanpool By whom built Barnett Laidt Co., Ltd. Yard No. 1208 When built
 es made at BEDFORD By whom made W.H. ALLEN, SONS & CO. LTD Engine No. R2/81756 When made 1951
 rs made at _____ By whom made _____ Boiler No. _____ When made _____
 nder Horse Power 3.5 Owners British Tankers Ltd Port belonging to _____
 Horse Power as per Rule _____ Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____
 for which vessel is intended _____

NES, &c.—Description of Engines ONE 9 1/2" & 12 1/2" x 5" STEAM ENGINE DRIVING 50 K.W. DYNAMO. Revs. per minute 550
 of Cylinders 9 1/2" H.P. & 12 1/2" L.P. Length of Stroke 5" No. of Cylinders 2 No. of Cranks 2
 shaft, dia. of journals as per Rule -2.0 Crank pin dia. 3.25-3.0 Mid. length breadth 4.25 Thickness parallel to axis
 as fitted 3.25-3.0 Crank webs 2.125 shrunk 2.375 Thickness around eye-hole
 Mediate Shafts, diameter as per Rule _____ Thrust shaft, diameter at collars as per Rule _____
 as fitted _____ as fitted _____

Shafts, diameter as per Rule _____ Screw Shaft, diameter as per Rule _____
 as fitted _____ as fitted _____ Is the {tube / screw} shaft fitted with a continuous liner {
 Main Liners, thickness in way of bushes as per Rule _____ Thickness between bushes as per Rule _____
 as fitted _____ as fitted _____ 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.
 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.
 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
 If so, state type _____ Length of Bearing in Stern Bush next to and supporting propeller _____

Pumps worked from the Main Engines, No. _____ Diameter _____ Stroke _____ Can one be overhauled while the other is at work _____
 Pumps worked from the Main Engines, No. _____ Diameter _____ Stroke _____ Can one be overhauled while the other is at work _____
 Pumps connected to the Main Bilge Line {No. and size / How driven} _____
 Lubricating Oil Pumps, including Spare Pump, No. and size _____

independent means arranged for circulating water through the Oil Cooler _____ Suctions, connected both to Main Bilge Pumps and Auxiliary
 Pumps:—In Engine and Boiler Room _____
 Pump Room _____ In Holds, &c. _____

Water Circulating Pump Direct Bilge Suctions, No. and size _____ Independent Power Pump Direct Suctions to the Engine and/or Boiler Room Bilges,
 and size _____ Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes.
 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.

Sea Connections fitted direct on the skin of the ship. Are they fitted with Valves or Cocks.
 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.
 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.
 Pipes pass through the bunkers. How are they protected.
 pipes pass through the deep tanks. Have they been tested as per Rule.

Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times.
 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
 department to another. Is the Shaft Tunnel watertight. Is it fitted with a watertight door. worked from _____

BOILERS, &c.—(Letter for record _____) Total Heating Surface of Boilers _____
 h Boilers are fitted with Forced Draft _____ Which Boilers are fitted with Superheaters _____
 and Description of Boilers _____ Working Pressure _____
 A REPORT ON MAIN BOILERS NOW FORWARDED? _____
 A DONKEY BOILER FITTED? _____ If so, is a report now forwarded? _____
 the donkey boiler be used for other than domestic purposes _____

Are approved plans forwarded herewith for Shafting _____ Main Boilers _____ Auxiliary Boilers _____ Donkey Boilers _____
 (If not state date of approval)
 heaters _____ General Pumping Arrangements _____ Oil fuel Burning Piping Arrangements _____

SPARE GEAR.
 the spare gear required by the Rules been supplied. AS BELOW
 the principal additional spare gear supplied.

1 PAIR OF CONNECTING ROD BOLTS, NUTS & SPLIT PINS.
 1 PAIR OF CROSSHEAD BOLTS, NUTS & SPLIT PINS.
 1 PAIR OF MAIN BEARING BOLTS, NUTS & SPLIT PINS.
 1 SET OF COUPLING BOLTS, NUTS & SPLIT PINS.
 1 H.P. PISTON RING.
 1 L.P. PISTON RING.
 1 SET OF METALLIC PACKING FOR H.P. & L.P. PISTON RODS.
 1 SET OF METALLIC PACKING FOR H.P. & L.P. VALVE RODS.
 1 SET OF GOVERNOR SPRINGS.

The foregoing is a correct description.
 FOR W.H. ALLEN, SONS & CO. LTD. Manufacturer.
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Dates of Survey while building

During progress of work in shops - - { 1951. MAR 16. MAY 4. 10. 22. 25 July 13

During erection on board vessel - - - {

Total No. of visits. 6 (In Shops)

Dates of Examination of principal parts—Cylinders 10-5-51 Slides 10-5-51 Covers 10-5-51
 Pistons 22-5-51 Piston Rods 22-5-51 Connecting rods 22-5-51
 Crank shaft 25-5-51 Thrust shaft ✓ Intermediate shafts -
 Tube shaft ✓ Screw shaft ✓ Propeller ✓
 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 *Best steel* Identification Mark *LLOYDS B 4206 25-5-51 (RWB)* Thrust shaft material - Identification Mark -
 Intermediate shafts, material ✓ Identification Marks ✓ 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.....If so, state name of vessel.....

General Remarks (State quality of workmanship, opinions as to class, &c. *The steam generator set has been constructed under special survey in accordance with the requirements of the Rules the steel was made at works approved by the Committee; The workmanship is good; on completion the generator was tested upon the bench with satisfactory results.*

Note: *The generator set has been despatched to Cammel Laird for fitting on board the vessel.*

This generator set has been properly installed in the vessel and tried under full working conditions with satisfactory results.

*G. P. ...
Liverpool*

The amount of Entry Fee ... £ 4 0 :
 Special ... £ :
 Donkey Boiler Fee ... £ :
 Travelling Expenses (if any) £ - : 15/2 :
 When applied for, 8/Ave. 1951
 When received, 10

RWB Coomber
 Engineer Surveyor to Lloyd's Register of Shipping

Date

Committee's Minute



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