

REPORT ON OIL ENGINE MACHINERY.

No. 19061.

Received at London Office

31 MAY 1950

Date of writing Report 19... When handed in at Local Office 17th May. 19 50 Port of...
 No. in Survey held at MIDDLESBROUGH. Date, First Survey 18th Oct. 1949 Last Survey 11th May. 19 50.
 Reg. Book. Number of Visits 91.
 on the ~~Deck~~ ~~Triple~~ ~~Quadruple~~ Screw vessel. m.v. "BRITISH GENERAL". Tons Gross... Net...
 built at Haverton Hill-on-Tees. By whom built Furness S.B. Co. Ltd. Yard No. 434 When built 1950.
 Engines made at Barrow By whom made Vickers Armstrong Ltd. Engine No. 983 When made 1950.
 Monkey Boilers made at Wallsend/Tyne By whom made Wallsend Slipway & Eng. Co. Ltd. Boiler No. 432 B When made 1950
 Brake Horse Power 3300 Owners The British Tankers Ltd. Port belonging to London.
 N. Power as per Rule 688 Is Refrigerating Machinery fitted for cargo purposes. No Is Electric Light fitted Yes
 Trade for which vessel is intended Tanker

L ENGINES, &c. —Type of Engines... 2 or 4 stroke cycle... Single or double acting...
 Maximum pressure in cylinders... Diameter of cylinders... Length of stroke... No. of cylinders... No. of cranks...
 Indicated Pressure... Ahead Firing Order in Cylinders... Span of bearings, adjacent to the crank, measured
 inner edge to inner edge... Is there bearing between each crank... Revolutions per minute...
 wheel dia... Weight... Moment of inertia of flywheel (lbs.in² or Kg.cm.²)... Means of ignition... Kind of fuel used...
 Solid forged dia. of journals as per Rule... Crank pin dia... Crank webs Mid. length breadth... Thickness parallel to axis...
 Semi built dia. of journals as fitted... Crank webs Mid. length thickness... shrunk Thickness around eyehole...
 All built dia. of journals as fitted... Crank webs Mid. length thickness... shrunk Thickness around eyehole...
 wheel Shaft, diameter as per Rule... Intermediate Shafts, diameter as per Rule... Thrust Shaft, diameter at collars as per Rule...
 as fitted... Intermediate Shafts, diameter as fitted 19.15/16" Thrust Shaft, diameter at collars as fitted...
 e Shaft, diameter as per Rule... Screw Shaft, diameter as per Rule... Is the ~~shaft~~ screw shaft fitted with a continuous liner { Yes. ✓
 as fitted... Screw Shaft, diameter as fitted 17 3/4" Is the ~~shaft~~ screw shaft fitted with a continuous liner { Yes. ✓
 ze Liners, thickness in way of bushes as per Rule 27/32" Thickness between bushes as per Rule 5" Is the after end of the liner made watertight in the
 as fitted 8" as fitted 21/32" 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...
 e 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-
 sive... 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
 tube shaft No. If so, state type... Length of bearing in Stern Bush next to and supporting propeller 5'11" ✓
 16-7" ✓ Pitch 11'5" No. of blades 4 Material Bronze whether moveable No Total developed surface 95 sq. feet
 nt of inertia of propeller (lbs.in² or Kg.cm.²)... Kind of damper, if fitted...
 od of reversing Engines... Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes ✓ Means of
 ation forced Thickness of cylinder liners... Are the cylinders fitted with safety valves Yes ✓ Are the exhaust pipes and silencers water cooled
 ed with non-conducting material lagged. If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned
 1 - ME Driven ✓ F.W. 1 Ad Ballast S.W.
 o the engine... Cooling Water Pumps, No. 1-12" x 10" x 10" Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes ✓
 Pumps worked from the Main Engines, No... Diameter... Stroke... Can one be overhauled while the other is at work...
 connected to the Main Bilge Line { No. and size 2 bilge sanitary 7" x 8" x 8" - 1 Ballast 12 x 10 x 10
 How driven Steam ✓
 cooling water led to the bilges No ✓ If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping
 Pumps, No. and size 1- 12 x 10 x 10 Power Driven Lubricating Oil Pumps, including spare pump, No. and size 1 M.E. driven
 1 Weir 8 x 7 x 18
 Independent means arranged for circulating water through the Oil Cooler Yes ✓ Suctions, connected to both main bilge pumps and auxiliary
 Aft. 2-4"
 In machinery spaces Aft well, 1-3 1/2", Coff 1-2 1/2", Ford P & S 2-3 1/2" In pump room Ford 2-4"
 &c. F. Peak 1-6" Lower Peak Store 2, 2" Upper Pk. store 2, 2" Ford Coff 1-3" Ford Bilge & Ball. Port 1-2"
 ident Power Pump Direct Suctions to the engine room bilges, No. and size 1 - 8" & 1 - 8"
 the bilge suction pipes in holds and tunnel well fitted with strum-bones... Are the bilge suction in the machinery spaces led from easily
 mud-bones, placed above the level of the working floor, with straight tail pipes to the bilges Yes ✓
 Connections fitted direct on the skin of the Ship Yes ✓ Are they fitted with valves or cocks Both ✓ Are they fixed
 ly high on the ship's side to be seen without lifting the platform plates Yes ✓ Are the overboard discharges above or below the deep water line below ✓
 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 ✓
 es pass through the bunkers... How are they protected...
 es 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 Yes ✓
 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
 from one compartment to another Yes ✓ Is the shaft tunnel watertight... Is it fitted with a watertight door... worked from...
 vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork...
 Compressors, No. 2- Peter No. of stages 3 diameters see London Cart. No. driven by D. 20630
 Brotherhood.
 Air Compressors, No. No. of stages diameters stroke driven by...
 Auxiliary Air Compressors, No. No. of stages diameters stroke driven by...
 provision is made for first charging the air receivers Steam Driven Compressors ✓
 ing Air Pumps, No. Two ✓ diameter 59 1/2" stroke 20" driven by main engine Levers
 Engines crank shafts, diameter as per Rule... No... Position...
 as fitted... auxiliary engines been constructed under special survey Yes Is a report sent herewith See London Rpt. Register
 No. 119859 Foundation

14/6/50

003687-003697-0066

AIR RECEIVERS:—Have they been made under survey... Yes ✓ State No. of report or certificate... see Newcastle Cert. C.31687
Is each receiver, which can be isolated, fitted with a safety valve as per Rule... Yes ✓
Can the internal surfaces of the receivers be examined and cleaned... Yes ✓ Is a drain fitted at the lowest part of each receiver... Yes ✓
Injection Air Receivers, No... Cubic capacity of each... Internal diameter... thickness...
Seamless, welded or riveted longitudinal joint... Material... Range of tensile strength... Working pressure...
Starting Air Receivers, No... 2 ✓ Total cubic capacity... 150 cub. ft Internal diameter... 4' 1 3/8" thickness... 15/16"
Seamless, welded or riveted longitudinal joint... Material... Range of tensile strength... Working pressure...
Actual... 600 lbs/

IS A DONKEY BOILER FITTED... Yes - 2 If so, is a report now forwarded... Yes ✓
Is the donkey boiler intended to be used for domestic purposes only... No ✓
PLANS. Are approved plans forwarded herewith for shafting... (If not, state date of approval) CASE.
Donkey boilers... General pumping arrangements... Pumping arrangements in machinery space...
Oil fuel burning arrangements... Receivers... Separate fuel tanks...
Have Torsional Vibration characteristics been approved... Date of approval...

SPARE GEAR.
Has the spare gear required by the Rules been supplied... Yes ✓
State the principal additional spare gear supplied... Tail shaft & propeller

T.V. approved 20/5/48 for 105 rpm & in enclosure of 14/2/50 for 108 rpm
The foregoing is a correct description... Manufacturer...
1949. Oct. 18, 19, 21, Nov. 1, 2, 3, 7, 8, 18, 22, 23, 25, 29, 30, Dec. 2, 5, 6, 7, 8, 9, 12, 13, 14, 15, 18, 19, 21, 28, 29, (1950) Jan. 4, 6, 9, 11, 12, 16, 17, 18, 20, 23, 24, 25, 27, 31, Feb. 1, 3, 6, 7, 8, 10, 13, 17, 20, 21, 24, 28, Mar. 1, 6, 7, 9, 13, 15, 16, 17, 20, 22, 23, 24, 27, 28, 29, 31, Apr. 3, 4, 6, 12, 14, 18, 20, 24, 25, 26, 27, May 1, 3, 4, 8, 10, 11.

Dates of Survey while building... During progress of work in shops... During erection on board vessel...
Total No. of visits... 91.
Dates of examination of principal parts—Cylinders... Covers... Pistons... Rods... Connecting rods...
Crank shaft... Flywheel shaft... Thrust shaft... Intermediate shafts... 1, 2, 50... Tube shaft...
Screw shaft... 16, 12, 49... Propeller... 16, 12, 49... Stern tube... 14, 12, 49... Engine scalings... 29, 3, 50... Engine holding down bolts... 29, 3, 50
Completion of fitting sea connections... 19, 12, 49... Completion of pumping arrangements... 4, 5, 50... Engines tried under working conditions... 26, 4, 50, 11

Crank shaft, material... Identification mark... Flywheel shaft, material... Identification mark...
Thrust shaft, material... Identification mark... Intermediate shafts, material... Steel... Identification mark... 19607/462
Tube shaft, material... Identification mark... Screw shaft, material... Steel... Identification mark... 19007/460 HA. 1
Identification marks on air receivers... A.B. 11, 1, 50 (Newcastle Cert. No. C.31687).
" " " Propeller... Z. 8943 A.S.S. 10/10/49 (Stone).
Welded receivers, state Makers' Name... R & W Hawthorn Leslie & Co. Newcastle on Tyne.

Is the flash point of the oil to be used over 130°F... Yes. ✓
Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with... Yes. ✓
Description of fire extinguishing apparatus fitted... steam smothering. ✓
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.

General Remarks (State quality of workmanship, opinions as to class, etc.) These engines and boilers have been fitted aboard this vessel, in accordance with the approved plans and Rule Requirements and on completion the machinery was tried out under working conditions and found satisfactory. In our opinion this vessel is now eligible for the record of LMC 5,50 and Notation of TS(CL) 5,50.

The amount of Entry Fee... £ 1/3 Special... £ 72 : 9
Donkey Boiler Fee... £ :
Travelling Expenses (if any) £ :
When applied for 26, 5, 1950.
When received 19

Assigned + LMC 5,50 Oil Eng.
C.L. 2 DB 15016
FRI. 23 JUN 1950

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

Engineer Surveyor to Lloyd's Register of Shipping.
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