

27 JUN 1947

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

22 NOV 1946

When handed in at Local Office 22 NOV 1946

Received at London Office 22 NOV 1946

Port of London, Date, First Survey 6th Sept 1946, Last Survey 30th Oct 1946, By whom built Barclay Curle & Co Ltd, Engine No R/57768, 3 sets 85K.W., Registered Horse Power 789, Is Refrigerating Machinery fitted for cargo purposes, Is Electric Light fitted Yes

GINES, &c.—Description of Engines Elec. Generating Sets, No. of Cylinders Two, Length of Stroke 7 1/2", No. of Cranks Two, Revs. per minute 475, Crank pin dia 4 1/4", Crank webs Mid. length breadth 5 1/2", Mid. length thickness 2 3/8"

Intermediate Shafts, diameter as per Rule, Thrust shaft, diameter at collars as per Rule, Tube Shafts, diameter as per Rule, Screw Shaft, diameter as per Rule, Is the tube screw shaft fitted with a continuous liner

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 stern tube, If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

Propeller, dia, Pitch, No. of Blades, Material, whether Moveable, Total Developed Surface sq. feet, Main Bilge Pumps worked from the Main Engines, No., Diameter, Stroke, Can one be overhauled while the other is at work

Oil Cooler, Suctions, connected both to Main Bilge Pumps and Auxiliary Bilge Pumps, In Engine and Boiler Room, In Holds, &c., Main Water Circulating Pump Direct Bilge Suctions, No. and size, Independent Power Pump Direct Suctions to the Engine and/or Boiler 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, How are they protected, 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

SPARE GEAR. The foregoing is a correct description. 1 set spares as follows:- 1 Pair Crosshead Bolts + NUTS, 1 HP. Piston. & Ring, 1 Pair Conn Rod " " " 1 L.P. " " " 1 Pair Main Bg. " " " 1 Piston rod complete with slipper, 1 Set Coup. Bolts " " " 1 Pair Crank Pin Brasses, 1 Armature, 1 Pair Crosshead Brasses, 1 Set Bearing Details, 1 Eccentric Strap, 1 Set Carbon Brushes, 2 Sets Governor springs, 1 Line Brush holders, 1 Set Brush Holder springs

MAN 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 other than domestic purposes

PLANS. Are approved plans forwarded herewith for Shafting, Main Boilers, Auxiliary Boilers, Donkey Boilers, Superheaters, General Pumping Arrangements, Oil fuel Burning Piping Arrangements

GENERATING

Dates of Survey while building: During progress of work in shops - - *Sept 6. 17. October 1. 4. 25. 29. 30*
 During erection on board vessel - - -
 Total No. of visits *7*

Dates of Examination of principal parts—Cylinders *6. 9. 46 1. 10. 46* Slides *1. 10. 46* Covers *6. 9. 46 1. 10. 46*
 Pistons *1. 10. 46* Piston Rods *4. 10. 46* Connecting rods *1. 10. 46*
 Crank shaft *17. 9. 46 1. 10. 46* 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 ✓
 Crank shaft material *Bart Steel* Identification Mark *1-3309-L.R. 17. 9. 46 (20)* Thickness of adjusting washers ✓
 Thrust shaft material Identification Mark ✓
 Intermediate shafts, material ✓ Identification Mark ✓ 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 generating sets were constructed under special survey; in accordance with the requirements of the Rules and approved plans; the steel was made at works approved by the Committee. The workmanship is good on completion the sets were tested upon the bench under full and overload conditions with satisfactory results.*

The sets have been dispatched to Glasgow for fitting on board the vessel

These generators have been satisfactorily installed, examined under working conditions & found satisfactory.

A. L. Luccan
Glasgow
20/6/47

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	£ 12 : 0	} When applied for, 22 NOV 1946
Special	£ :	
Donkey Boiler Fee	£ :	} When received,
Travelling Expenses (if any)	£ 2 : 0 : 10	

R. W. Coomber
 Engineer Surveyor to Lloyd's Register of Shipping.

Date.....

Committee's Minute.....

