

Bel. 114265
No. 113864

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 27 MAY 1946
 Port of LONDON
 When handed in at Local Office 27 MAY 1946
 Date, First Survey 25 JANUARY Last Survey 26 APRIL 1946
 (Number of Visits 4)
 Survey held at Bedford
 Name of Vessel BALAENA
 Tons { Gross _____ Net _____
 By whom built HARLAND & WOLFF No 1327/10 UNITED KINGDOM Yard No. _____ When built _____
 By whom made W. H. Allen Sons Ltd Engine No. R2/56751 When made 1946
 By whom made 75 H.W. Set Boiler No. _____ When made _____
 Owners _____ Port belonging to _____
 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted yes

Enclosed Compound Engine Revs. per minute 500
 Description of Engines
 Cylinders 8 1/2" dia & 13" dia Length of Stroke 6 1/2" No. of Cylinders 2 No. of Cranks 2
 Shaft, dia. of journals as per Rule 3 1/4" Crank pin dia. 3 1/2" Mid. length breadth 5 1/2" Thickness parallel to axis shrunk
 as fitted 3 3/4" Crank webs Mid. length thickness 2 3/8" Thickness around eye-hole
 Diameter Shafts, diameter as per Rule _____ as fitted _____
 Thrust shaft, diameter at collars as per Rule _____ as fitted _____
 Diameter Shafts, diameter as per Rule _____ as fitted _____
 Is the { tube / screw } shaft fitted with a continuous liner { _____ / _____ }
 Liners, thickness in way of bushes as per Rule _____ as fitted _____
 Thickness between bushes _____ 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 _____
 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 _____
 Is an approved Oil Gland or other appliance fitted at the after end of the tube _____
 Length of Bearing in Stern Bush next to and supporting propeller _____
 If so, state type _____
 Pitch _____ No. of Blades _____ Material _____ whether Moveable _____ Total Developed Surface _____ sq. feet
 Can one be overhauled while the other is at work _____
 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 _____
 Suctions, connected both to Main Bilge Pumps and Auxiliary _____
 Independent means arranged for circulating water through the Oil Cooler _____
 In Engine and Boiler Room _____ In Holds, &c. _____

BOILERS, &c.—(Letter for record _____) Total Heating Surface of Boilers _____
 Which Boilers are fitted with Superheaters _____
 Boilers are fitted with Forced Draft _____ Working Pressure _____
 Description of Boilers _____
REPORT ON MAIN BOILERS NOW FORWARDED? _____
DONKEY BOILER FITTED? _____ If so, is a report now forwarded? _____
 donkey boiler be used for other than domestic purposes _____
 Main Boilers _____ Auxiliary Boilers _____ Donkey Boilers _____
 Are approved plans forwarded herewith for Shafting _____
 (If not state date of approval) _____
 General Pumping Arrangements _____ Oil fuel Burning Piping Arrangements _____

SPARE GEAR.
 spare gear required by the Rules been supplied _____
 principal additional spare gear supplied _____
2 Conn. Rod Bolts, Nuts & Split pins
2 Crosshead " " " " "
2 Main Brg: " " " " "
1 Set Coupling " " " " "

The foregoing is a correct description.
M. Hearn For W. H. Allen Sons & Co. LTD. Manufacturer.
 Lloyd's Register Foundation

1946 Jan 25 Mar 12 Apr 5 26

Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits 4 (In shops)

Dates of Examination of principal parts—Cylinders 5-4-46 Slides 5-4-46 Covers 5-4-46

Pistons 12-3-46 Piston Rods 12-3-46 Connecting rods 12-3-46

Crank shaft 25-1-46 Thrust shaft - Intermediate shafts -

Tube shaft - Screw shaft - Propeller -

Stern tube - Engine and boiler seatings - Engines holding down bolts -

Completion of fitting sea connections - Boilers fixed - Engines tried under steam -

Completion of pumping arrangements - Thickness of adjusting washers -

Main boiler safety valves adjusted - Identification Mark 715 E LLOYD'S 25-1-46

Crank shaft material Best Steel Identification Mark Thrust shaft material Identification Mark - E

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 generating set was 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 set was tested up the bench under full and overload conditions with satisfactory results.

The set has been despatched to Harland & Wolff Works Belfast

This generating set has been efficiently installed onboard the vessel and tested under full working conditions with satisfactory results.

Geo. S. Thomas

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 | £ 4 : 0 | When applied for, | 19 |
| Special | £ : | When received, | 19 |
| Donkey Boiler Fee | £ : | | |
| Travelling Expenses (if any) | £ 19 : 10 | | |

Date FRI, 22 NOV 1946

Committee's Minute See F.E. Mchly. rpt.

