

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office - 8 NOV 1937

Date of writing Report 29 Oct 1937 When handed in at Local Office -8 NOV 1937 Port of London
 Date, First Survey 7 May 1937 Last Survey 15 Oct 1937
 (Number of Visits 14)
 Survey held at Bedford on the Twin Sc. 4/5 "UMGENI"
 Built at Newcastle By whom built Luan Hunter & Wigham Yard No. 1556 When built
 Engines made at Bedford By whom made W. H. Allen Sons & Co. Ltd. Engine No. R1/65788 When made 1937
 Boilers made at do By whom made do Boiler No. 41 When made 1937
 Registered Horse Power Owners Bullard, King & Co. Port belonging to LONDON
 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted Yes
 Trade for which Vessel is intended Ocean going Total Capacity of Generator 350 K.W.
175 K.W. each

ENGINES, &c.—Description of Engines Steam Reciprocating Revs. per minute 425
 Dia. of Cylinders 11" x 19" Length of Stroke 9" No. of Cylinders 2 No. of Cranks 2
 Crank shaft, dia. of journals 5 1/2" Crank pin dia. 4 3/4" Crank webs 3 5/8" x 3" Thickness parallel to axis 1"
 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 } shaft fitted with a continuous liner {
 as fitted { screw }
 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 { screw }
 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
 If so, state type Length of Bearing in Stern Bush next to and supporting propeller
 Propeller, dia. 10 1/4" Pitch 23 1/2" No. of Blades 3 Material Cast Iron whether Moveable No Total Developed Surface 100 sq. feet
 Main Engines, No. 2 Diameter 11" Stroke 19" Can one be overhauled while the other is at work
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 11" Stroke 19" Can one be overhauled while the other is at work
 Feed Pumps { No. and size 2 Pumps connected to the { No. and size 2
 { How driven Electric Main Bilge Line { How driven Electric
 Lubricating Oil Pumps, including Spare Pump, No. and size 1 0 1/4" x 3 3/8" stroke
 Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both 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 Room Bilges,
 o. 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
 Are the Pipes pass through the bunkers How are they protected
 Are the 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
 Forced Draft fitted 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?
 Is the donkey boiler intended to be used for domestic purposes only
 Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
 (If not state date of approval)
 Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.
 Is the spare gear required by the Rules been supplied No spare gear supplied
 Is the principal additional spare gear supplied

The foregoing is a correct description.
 H. H. Allen Sons & Co. Ltd. Manufacturer.
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April 6-20

1937. / May 7-25 June 10. 11. 24. July 1¹⁵ 26. Aug 11-20. Oct. 14. 15-

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits

14 VISITS (IN SHOPS)

Dates of Examination of principal parts—Cylinders 11. 6. 37 Slides 20. 8. 37 Covers 24. 6. 37
Pistons 21. 8. 37 Piston Rods 20. 8. 37 Connecting rods 7. 5. 37
Crank shaft 7. 5. 37 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 *Steel* Identification Mark *110YDS 690 3.3.37* Thrust shaft material ✓ Identification Mark ✓
Intermediate shafts, material ✓ Identification Marks *110YDS 689. 4.3.37* 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 *Montali*

General Remarks (State quality of workmanship, opinions as to class, &c.)

These two steam driven generating sets have been constructed under Special Survey in accordance with the requirements of the Rules. The materials & workmanship are good & on completion full power & overload tests have been carried out with satisfactory results.
The sets have been dispatched to Newcastle for fitting on board the vessel

These engines have been fitted on board the vessel and satisfactorily tested under full working conditions.

A. Watt
Newcastle on Tyne
24/5/38

The amount of Entry Fee ... £ 10-10-0
Special ... £ : :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ 4 11 0

When applied for, 9 NOV 1937
When received, 4 Jan 1938

A. K. Garnett
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

See Prob. 2.8. 161244

See Nwc. 2.8. 96297

FRI. 3 JUN 1938

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