

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19 When handed in at Local Office 19 AUG 1944 Port of HULL  
No. in Survey held at HULL Date, First Survey 11. 1. 44 Last Survey 27. 8. 19 44  
Reg. Book on the H.M. DANLAYER HERMETRAY (Number of Visits 33) J. 2692 Tons { Gross 458.6  
Net 143.9  
Built at SELBY By whom built Cochran & Sons Ltd Yard No. 1284 When built 1944  
Engines made at HULL By whom made A. & S. Smith & Co Engine No. 740 When made  
Boilers made at W. I. HARTLEPOOL By whom made CENTRAL MARINE ENG. WORKS. Boiler No. R 365 When made  
Registered Horse Power Owners THE ADMIRALTY Port belonging to  
Nom. Horse Power as per Rule 156 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes  
Trade for which vessel is intended GOVERNMENT SERVICE

ENGINES, &c.—Description of Engines Triple Expansion  
Dia. of Cylinders 13 1/2", 23", 38" Length of Stroke 27" No. of Cylinders 3 Contract Revs. per minute 150  
Crank shaft, dia. of journals as per Rule 4.5" as fitted 4 7/8" Crank pin dia. 4 7/8" Crank webs Mid. length breadth Thickness parallel to axis 4 13/16"  
Intermediate Shafts, diameter as per Rule 4.15" as fitted 4 1/4" Thrust shaft, diameter at collars as per Rule 4.5" as fitted 4 7/8"  
Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 8.2" as fitted 8 1/4" Is the shaft fitted with a continuous liner No  
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 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  
Propeller, dia. 102" Pitch 11'-0" No. of Blades 3 Material C.I. Length of Bearing in Stern Bush next to and supporting propeller 36 1/2" Total Developed Surface 24 sq. feet  
Feed Pumps worked from the Main Engines, No. 2 Diameter 2 1/2" Stroke 15" Can one be overhauled while the other is at work Yes  
Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 1/2" Stroke 15" Can one be overhauled while the other is at work Yes  
Feed Pumps { No. and size One 4" x 6" x 12" Weir How driven Independent Steam Pumps connected to the Main Bilge Line { No. and size One 6" x 5 1/2" x 15" Weir How driven Independent Steam ALSO Daverton  
Ballast Pumps, No. and size None Lubricating Oil Pumps, including Spare Pump, No. and size None  
Are two independent means arranged for circulating water through the Oil Cooler None Suctions, connected to both Main Bilge Pumps and Auxiliary  
Bilge Pumps:—In Engine and Boiler Room Eng. room 2 @ 2" dia. One 2 3/4" dia. stokehold 2 @ 2" dia.  
In Pump Room None In Holds, &c. One 2" dia. in each of the following: fore peak, chain locker, store below accommodation, magazine, spirit room, bunker, shaft space, aft peak  
Main Water Circulating Pump Direct Bilge Suctions, No. and size One 2 1/2" (included above) Independent Power Pump Direct Suctions to the Engine Room Bilges,  
No. and size One 2 3/4" (included above) Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes  
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 Yes  
Are all Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Yes  
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Overboard Discharges above or below the deep water line at W.L.  
Are they 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 No  
What Pipes pass through the bunkers Feed water suction How are they protected Wood casing  
What pipes pass through the deep tanks None 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 Yes  
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 Yes Is the Shaft Space watertight Yes Is it fitted with a watertight door access worked from flat above

MAIN BOILERS, &c.—(Letter for record S.) Total Heating Surface of Boilers 2650 sq. ft.  
Which Boilers are fitted with Forced Draft One SB. Which Boilers are fitted with Superheaters NONE  
No. and Description of Boilers Working Pressure 200 lb/sq. in.  
IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes  
IS A DONKEY BOILER FITTED? No If so, is a report now forwarded?  
Can the donkey boiler be used for domestic purposes only  
PLANS. Are approved plans forwarded herewith for Shafting 17-4-39 Main Boilers 17-4-39 Auxiliary Boilers NONE Donkey Boilers NONE  
(If not state date of approval)  
Superheaters NONE General Pumping Arrangements 17-10-39 Oil fuel Burning Piping Arrangements NONE

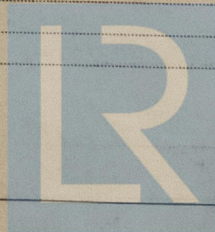
## SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes  
State the principal additional spare gear supplied See attached list

The foregoing is a correct description.

FOR AMOS & SMITH LTD.

W. C. Brown, Manufacturer.



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## HERMETRAY.

Dates of Survey while building { During progress of work in shops - - 1944 Jan. 11, 21. Mar. 13. Apr. 1, 15, 17, 21, 22, 26. May. 11, 13. June 20.  
 During erection on board vessel - - 1944 MAR 15, APR 4, 11, 18, JUN 26, JULY 9, 18, 20, 22, 24, 25, 26, 27, 28. Aug. 10, 14, 16, 17, 22.  
 Aug. 29.  
 Total No. of visits 33.

Dates of Examination of principal parts—Cylinders 22/4/44 21/4/44 26/4/44 Slides 13/5/44 Covers 22/4/44 21/4/44 13/5/44  
 Pistons 13/5/44 Piston Rods 1/4/44 Connecting rods 13/5/44  
 Crank shaft 22/4/44 Thrust shaft 21/1/44 Intermediate shafts 11/1/44  
 Tube shaft ✓ Screw shaft 13/3/44 Propeller 9/7/44  
 Stern tube 15/3/44 Engine and boiler seatings 26/6/44 Engines holding down bolts 22/7/44 27/8/44  
 Completion of fitting sea connections 4/4/44  
 Completion of pumping arrangements 27/7/44 Boilers fixed 22/7/44 Engines tried under steam 27/7/44 22/8/44  
 Main boiler safety valves adjusted 27/7/44 Thickness of adjusting washers P & S 3/8" ✓ 2414, TWB  
 Crank shaft material F.I. STL Identification Mark 5-7-43 Thrust shaft material F.I. STL Identification Mark 26-11-43  
 Intermediate shafts, material D<sup>o</sup> Identification Mark 2414, TWB, 22-11-43 Tube shaft, material — Identification Mark —  
 Screw shaft, material D<sup>o</sup> Identification Mark 2414, TWB, 26-11-43 Steam Pipes, material STEEL Test pressure 600 lb Date of Test 25/7/44  
 Is an installation fitted for burning oil fuel No 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 No 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 Hellenic.

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

The machinery of this vessel has been constructed under Special Survey in accordance with the approved plans, Admiralty Specification and Secretary's letters, of tested materials & good workmanship. The vessel's machinery installed on board, tried under working conditions in dock and on the river and found satisfactory in every respect. Eligible in our opinion to be classed in the Register Book \* LMC 8,44. OG and notation T, 3Cy. 13½", 23", 38" - 27". 156 NHP, 200 ft. 15B, 3Cf, 63GS, 2650 H.S. F.D.

Agreed fee - { Class. £39 = £75.  
Spec. £36

Hull office fee for M.E. & fitting out = £23-8 = £45  
 D<sup>o</sup> Specification £21-12

Balance to West Hardhead = £12-6-0.

Class (M.E. & F.O.) 23-8  
 The amount of Entry Fee D<sup>o</sup> SPECIF<sup>n</sup> 21-12  
 Special ... 14-8  
 Balance to West Hardhead 12-6  
 Donkey Boiler Fee ...  
 Travelling Expenses (if any) £

When applied for, 31 AUG 1944

When received, 19

ADMIRALTY  
 A/c rendered from  
 London 20 OCT 1944

W. S. Shields & J. The  
 Engineer Surveyor to Lloyd's Register of Shipping.

TUES. 12 SEP 1944

Committee's Minute

Assigned + LMC 8,44  
J.D. OG.



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