

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 10 JUL 1942

Date of writing Report 6. 6. 1942 When handed in at Local Office 8 JUL 1942 Port of HULL
No. in Survey held at HULL Date, First Survey 25. 11. 41 Last Survey H. 6. 1942
Reg. Book (Number of Visits 51)

on the H.M.T. **DUNKERY.** Tons (Gross 511 Net 160)
Built at BEVERLEY By whom built Cook Weller & Gemmell Yard No. 688 When built 1942
Engines made at HULL By whom made Chas. D. Holmes & Co Engine No. 1606 When made "
Boilers made at HULL By whom made Chas. D. Holmes & Co Boiler No. 1601 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

ENGINES, &c.—Description of Engines Triple Expansion CONTRACT Revs. per minute 120
Dia. of Cylinders 15", 25", 42" Length of Stroke 27" No. of Cylinders 3 No. of Cranks 3
Crank shaft, dia. of journals as per Rule 8.3" Crank pin dia. 8 1/2" Mid. length breadth ✓ Thickness parallel to axis 5 1/2"
as fitted 8 1/2" Crank webs shrunk Mid. length thickness ✓ Thickness around eye-hole 3 13/16"
Intermediate Shafts, diameter as per Rule 7.9" Thrust shaft, diameter at collars as per Rule 8.3"
as fitted 8 1/8" as fitted 8 1/2"
Tube Shafts, diameter as per Rule NONE Screw Shaft, diameter as per Rule 8.8"
as fitted NONE as fitted 9" Is the {tube screw} shaft fitted with a continuous liner {Yes
Bronze Liners, thickness in way of bushes as per Rule .56" Thickness between bushes as per Rule .42"
as fitted 5/8" as fitted 5/8" Is the after end of the liner made watertight in the
propeller boss Yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner One length

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
at No. If so, state type ✓ Length of Bearing in Stern Bush next to and supporting propeller 4 1/2"

Propeller, dia. 10-9" Pitch 11-7 1/2" No. of Blades 4 Material C.I. whether Moveable Solid Total Developed Surface 43 sq. feet
Feed Pumps worked from the Main Engines, No. One Diameter 3" Stroke 16" Can one be overhauled while the other is at work Yes
Bilge Pumps worked from the Main Engines, No. One Diameter 3" Stroke 16" Can one be overhauled while the other is at work Yes

Feed Pumps { No. and size One 6" x 8 1/2" x 13" Pumps connected to the Main Bilge Line { No. and size One at 3" x 16" One 7" x 5" x 6" Duplex One 3" Ejector
How driven Independent Sream Main Eng Independent Sream Ind Pm
Ballast Pumps, No. and size One 7" x 5" x 6" Duplex 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 2 @ 2" and One 3" Sream Ejector
In Pump Room ✓ In Holds, &c. One 2" Dia in each:—Fore hold, D.C. Frms
Spruit Rn & Magazine

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 5" Independent Power Pump Direct Suctions to the Engine Room Bilges,
No. and size One 3" Sream Ejector 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 Both
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 Above
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 Yes
What Pipes pass through the bunkers Forward 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 Tunnel watertight None Is it fitted with a watertight door ✓ worked from ✓

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 2358 sq. ft.
Which Boilers are fitted with Forced Draft All ✓ Which Boilers are fitted with Superheaters None
No. and Description of Boilers One S.B. Working Pressure 220 lb 10"
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 26-3-41 Main Boilers 30-1-41 Auxiliary Boilers NONE Donkey Boilers NONE
(If not state date of approval)
Superheaters NONE General Pumping Arrangements 15-4-41 Oil fuel Burning Piping Arrangements ✓

SPARE GEAR.
Has the spare gear required by the Rules been supplied Yes see attached list
State the principal additional spare gear supplied In accordance with Admiralty Specification

The foregoing is a correct description.
FOR CHARLES D. HOLMES & CO., LTD.
W.R. Evans

Manufacturer.



004037-004041-0020

DUNKERY.

1942

During progress of work in shops -- { 1941 Nov. 25. 27. Feb. 17. 20. 23. 27. Mar. 6. 12. 13. 19. 20. 23. 26. 27. 30. Apr. 3. 7. 8. 9. 10. 11. 13. 14.
 16. 17. 18. 20. 22. 24. 25. 29. 30. May. 1. 4. 5. 6. 8. 13. 15. 18. 19. 20. 21. 27. 28. 29.
 June 1. 2. 3. 4.

Dates of Survey while building { During erection on board vessel ---
 Total No. of visits 51.

Dates of Examination of principal parts --- Cylinders 14/4/42 19/4/42 17/4/42 Slides 24/4/42 Covers 14/4/42 19/4/42 17/4/42
 Pistons 13/4/42 24/4/42 Piston Rods 27/3/42 Connecting rods 13/4/42
 Crank shaft 12/3/42 Thrust shaft 13/3/42 Intermediate shafts 23/3/42
 Tube shaft ✓ Screw shaft 12/3/42 Propeller 26. 3. 42
 Stern tube 25-11-41 Engine and boiler seatings 15/5/42 Engines holding down bolts 15/5/42
 Completion of fitting sea connections 25-11-41
 Completion of pumping arrangements 26. 3. 42 Boilers fixed 15/5/42 Engines tried under steam 29/5/42
 Main boiler safety valves adjusted 29/5/42 Thickness of adjusting washers Both 13/32
 Crank shaft material M.S. Coupler 7179 AEG 17/4/42 Identification Mark 6614 AEG 7/1/42 1640. J.S. 13. 3. 42.
 Intermediate shafts, material M.S. Identification Marks 6946 AEG 26. 2. 42 Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material M.S. Identification Mark 6610 AEG 17. 12. 41. Steam Pipes, material J.D. STEEL Test pressure 660 lb Date of Test 20. 5
 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 BIRD LIP

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The machinery of this vessel has been fitted on board under special survey in accordance with the Admiralty requirements, the approved plan and the Society's Rules.
 The workmanship and material are good and when tried under steam was found satisfactory in every respect.
 It is eligible, in our opinion, when the vessel is classed, to have records of * LMC 6, 42. and C.L. and the notation of T 3cy. 15", 25", 42" - 156 NHP 220 lbs 3 c.f. G 563 H S 2358 F.P. I.S.B.

The amount of Entry Fee ... £ : : When applied for, B JUL 1942
 Special ... £ 78 : - :
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ : : 19

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

FRI. 17 JUL 1942

Committee's Minute ...
 Assigned ...
 + dmb 6.42
 J.D. CL.



Certificate to be sent to
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)