

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

Date of writing Report

10

When handed in at Local Office

10

Port of

Received at London Office

HULL

No. in Survey held at
Reg. Book.

Hull

Date, First Survey

19.8.41

Last Survey

23.2.1942

(Number of Visits 50)

on the H.M.T.

DUNCTON

Built at BEVERLEY.

By whom built

Cook Welton & Gemmell Ltd

Yard No. 684

Tons Gross 511

Net 467.160

When built 1942-2

Engines made at HULL

By whom made

Chas. D. Holmes

Engine No. 1600

When made 1942-2

Boilers made at W. Hartlepool

By whom made

Central Marine Eng Works

Boiler No. R346

When made 1942-2

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

Dia. of Cylinders 15", 25", 42"

Length of Stroke 27"

No. of Cylinders 3

Revs. per minute 120

Crank shaft, dia. of journals

as per Rule 8.3"

as fitted 8.3"

Crank pin dia. 8.5"

Crank webs

Mid. length breadth

No. of Cranks 3

Thickness parallel to axis 5.5"

Intermediate Shafts, diameter

as per Rule 7.9"

as fitted 8.5"

Thrust shaft, diameter at collars

as per Rule 8.3"

as fitted 8.3"

Tube Shafts, diameter

as per Rule

as fitted None

Screw Shaft, diameter

as per Rule 8.8"

as fitted 9"

Is the shaft fitted with a continuous liner

Yes

Bronze Liners, thickness in way of bushes

as per Rule 5.6"

as fitted 5.6"

Thickness between bushes

as per Rule 4.2"

as fitted 4.2"

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

No

If so, state type

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

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"

How driven Independent 8 beam

Pumps connected to the Main Bilge Line

No. and size One 3" x 16"

How driven Main Cup

Independent 8 beam

One 7" x 5" x 6"

One 3" Ejector

Ballast Pumps, No. and size One 7" x 5" x 6" Duplex

(Inclined above)

Are two independent means arranged for circulating water through the

Oil Cooler None

Bilge Pumps;—In Engine and Boiler Room

2 @ 2 1/2"

3" 8 beam Ejector

In Pump Room

In Holds, &c. 2" in each

Fore Hold, D.C. Stores, Spirit Rm. 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" 8 beam Ejector

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 fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

What Pipes pass through the bunkers

What pipes pass through the deep tanks

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 S)

Is Forced Draft fitted

No. and Description of Boilers One S.B.

Working Pressure 220 lb/sq. in.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes.

IS A DONKEY BOILER FITTED? No.

Is the donkey boiler intended to be used for domestic purposes only

PLANS. Are approved plans forwarded herewith for Shafting

(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

State the principal additional spare gear supplied

in accordance with Admiralty Specification. Not attached.

DUNCTON

		1941.	1942.
Dates of Survey while building	During progress of work in shops - -	Aug. 19. 22. 27. Sep. 5. 12. Oct. 10. 27. Nov. 10. 14. 21. 22. 24. 26. 28. Dec. 1. 3. 5. 12. 19. 22. 29. - Jan. 1. 2. 3. 5. 6. 8. 10. 12.	
	During erection on board vessel - - -	13. 15. 16. 19. 20. 21. 23. 28. 29. 31. Feb. 2. 3. 4. 6. 10. 11. 13. 14. 21. 22. 23	
Total No. of visits		50	

Dates of Examination of principal parts—Cylinders 24/11/41. 26/11/41. 28/11/41. Slides 1/12/41. Covers 24/11/41. 26/11/41. 28/11/41.

Pistons 14/11/41. 12/12/41. 19/12/41. Piston Rods 14/11/41. Connecting rods 12/12/41.

Crank shaft 22/11/41. Thrust shaft 27/10/41. Intermediate shafts 10/11/41.

Tube shaft None. Screw shaft 4 12. 12. 41. Propeller 12/12/41.

Stern tube 27/8/41. Engine and boiler seatings 23. 8. 41. Engines holding down bolts 1-1. 42.

Completion of fitting sea connections 23-8-41.

Completion of pumping arrangements 29-1-42. Boilers fixed 1-1. 42. Engines tried under steam 11. 2. 42.

Main boiler safety valves adjusted 29-1-42. Thickness of adjusting washers P 13/32. S. 7/16"

Crank shaft material M.S. Amplify 5961 Journal. 5964 AEG 21-8-41. Identification Mark Pine. 6374 AEG Thrust shaft material M.S. Identification Mark 5962 AEG 21/8/41.

Intermediate shafts, material M.S. Identification Marks 5965 AEG 4-11-41. Tube shaft, material None. Identification Mark

Screw shaft, material M.S. Identification Mark 5935 AEG 15. 8. 41. Steam Pipes, material Steel Test pressure 600. 21/11/41. Date of Test 22-7-41.

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 ☒ 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 H.M.T. BIRD LIP. Hull No. 54492

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

The Machinery of this Yacht has been fitted on board under Special Survey in accordance with the Admiralty requirements & approved plans & the Society's Rules.

The Book memberships & materials are good & when tried much pleasure it was found that factory in every respect

It is eligible, in our opinion, to have the records of ²⁵⁴L.M.C. 2.42.
C.L. & the notation of T. 3 Cy 15', 25", 42" - 27" 156 NHP. 820 lbs. 1. SB.
3 Cf. G.S. 63, H.S. 2358. F.P.

Certificate to be sent to _____
not to write on or below the space for Committee's Minute.)

The amount of Entry Fee	...	£	:	:	When applied for,
Special	...	£	98	0	13 FEB 1942
<i>Less Boiler fee</i>	...	£	15	14	
Donkey Boiler Fee	...	£	62-	6	When received,
Travelling Expenses (if any)	£	:	:	:	19.....

Lyle & Co. Ltd.

Committee's Minute
Assigned

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Foundation