

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 10 When handed in at Local Office 10 NOV 1942 Port of Sunderland 18 NOV 1942

No. in Survey held at Sunderland Date, First Survey 11 June Last Survey 9 Nov 1942  
 Reg. Book. on the "MIDDLESEX TRADER" (Number of Visits 38)

Built at Sunderland By whom built J. L. Thompson & Co. L<sup>d</sup> Yard No. 621 Tons { Gross 7241  
 Net 4291  
 When built 1942.

Engines made at Sunderland By whom made G. Clark (1938) L<sup>d</sup> Engine No. 1269 When made 1942

Boilers made at Sunderland By whom made G. Clark (1938) L<sup>d</sup> Boiler No. 1269 When made 1942.

Registered Horse Power Owners Traders Navigation Co. L<sup>d</sup> Port belonging to London.

Nom. Horse Power as per Rule 513 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 24 1/2" - 39" - 40" Length of Stroke 48" No. of Cylinders 3. Revs. per minute 3. No. of Cranks 3.

Crank shaft, dia. of journals as per Rule 13.99 as fitted 14 1/4" Crank pin dia. 14 3/4" Crank webs Mid. length breadth 9" Thickness parallel to axis 9" shrunk Thickness around eye-hole 6 3/8"

Intermediate Shafts, diameter as per Rule 13.33 as fitted 13 5/8" Thrust shaft, diameter at collars as per Rule 14 1/4" as fitted 14 1/4"

Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 14.84" as fitted 15 1/4" Is the tube screw shaft fitted with a continuous liner? Yes.

Bronze Liners, thickness in way of bushes as per Rule 25/32" as fitted Thickness between bushes as per Rule 3/4" as fitted 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? -

Propeller, dia. 18'-0" Pitch 15'-0" No. of Blades 4 Material C.I. whether Moveable No. Total Developed Surface 117 sq. feet

Feed Pumps worked from the Main Engines, No. Two Diameter - Stroke - Can one be overhauled while the other is at work? Yes.

Bilge Pumps worked from the Main Engines, No. Two Diameter 4" Stroke 24" Can one be overhauled while the other is at work? Yes.

Feed Pumps { No. and size 2 @ 4" x 9 1/2" x 21" How driven Steam Pumps connected to the Main Bilge Line { No. and size 1 @ 8" x 6" x 15" How driven Steam. Ballast pump.

Ballast Pumps, No. and size 1 @ 9" x 11" x 10" Lubricating Oil Pumps, including Spare Pump, No. and size -

Are two independent means arranged for circulating water through the Oil Cooler? -

Bilge Pumps;—In Engine and Boiler Room 2 @ 3" on Side + 1 @ 3" St. Side E. Room 1 @ 2" in Thrust room + 1 @ 2" in Thrust well.

In Pump Room No. 5. 1 @ 4" aft. In Holds, &c. No. 1, 2, 3, x lumber, + No. 4 Hold 3" ft. well.

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 9" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 5" Are all the Bilge Suction Pipes in holds and hannel 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? Ball.

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? Below.

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? In Hold bilge Suction How are they protected? head casing.

What 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? 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? Yes. Is it fitted with a watertight door? No. Bilge. intact worked from -

MAIN BOILERS, &c.—(Letter for record S.) Total Heating Surface of Boilers 5554 sq (main) + 1486 sq (aux.) = 7040 total

Which Boilers are fitted with Forced Draft All. Which Boilers are fitted with Superheaters none.

No. and Description of Boilers 2 S.B + 1 aux. (F.D) Working pressure 220 lbs

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes.

IS A DONKEY BOILER FITTED? Yes. If so, is a report now forwarded? Yes.

Can the donkey boiler be used for domestic purposes only

PLANS. Are approved plans forwarded herewith for Shafting Main Boilers. Auxiliary Boilers. Donkey Boilers. (If not state date of approval)

Superheaters - General Pumping Arrangements Yes. Oil fuel Burning Piping Arrangements -

SPARE GEAR.

Has the spare gear required by the Rules been supplied? Yes.

State the principal additional spare gear supplied

The foregoing is a correct description.

GEORGE CLARK (1938) LTD.

Archd. J. Berry. DIRECTOR & GENERAL MANAGER.

Manufacturer.



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