

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY

Received at London Office

Date of writing report

10

When handed in at Local Office

Port of

Glasgow

No. in Survey held at
Reg. Book

Dumbarton

Date First Survey

28. 10 1941

Last Survey

6. 4

1943

(Number of Visits 50)

on the

1/5 "EMPIRE TUDOR"

Built at

Sunderland

By whom built

Shipbuilding Corporation Ltd

Yard No.

2

Engines made at

Dumbarton

By whom made

W. Denny & Bros

Engine No.

1116

Boilers made at

Sunderland

By whom made

George Watson (1938) Ltd

Boiler No.

1304

Tons

Gross 7087

Net 4908

When built

1944

When made

1942

When made

1944

Registered Horse Power

Owners

Ministry of War Transport

Port belonging to

Sunderland

Nom. Horse Power as per Rule

373 510

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

Trade for which Vessel is intended

ENGINES, &c.—Description of Engines Triple expansion

Dia. of Cylinders 24 1/2"-39"-70" Length of Stroke 48" No. of Cylinders 3 Revs. per minute
 Crank shaft, dia. of journals as fitted 14 1/4" Crank pin dia. 14 3/4" No. of Cranks 3
 Intermediate Shafts, diameter as fitted 13 5/8" Thrust shaft, diameter at collars as fitted 14 1/4"
 Tube Shafts, diameter as fitted 15 1/4" Screw Shaft, diameter as fitted 15 1/4"
 Bronze Liners, thickness in way of bushes as fitted 13/16" Thickness between bushes as fitted 2 1/32"
 Propeller, dia. 18'-3" Pitch 16'-6" No. of Blades 4 Material O.C. whether Moveable Solid
 Feed Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 27"
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 27"
 Feed Pumps No. and size How driven Pumps connected to the Main Bilge Line No. and size How driven
 Ballast Pumps, No. and size 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 Suctions, connected to both Main Bilge Pumps and Auxiliary
 In Pump Room In Holds, &c.

Main Water Circulating Pump Direct Bilge Suctions, No. and size

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. 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
 What Pipes pass through the bunkers How are they protected
 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
 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 8)

Total Heating Surface of Boilers 7248 sq. ft.

Which Boilers are fitted with Forced Draft

all

Which Boilers are fitted with Superheaters

none

No. and Description of Boilers 3—horizontal

Working Pressure 220

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

IS A DONKEY BOILER FITTED? Yes

If so, is a report now forwarded?

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

Main Boilers

Auxiliary Boilers

Donkey Boilers

Superheaters

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied

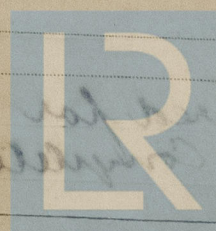
The foregoing is a correct description.

For and on behalf of

WILLIAM DENNY & BROTHERS, LTD.

Manufacturer.

William Denny.



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Lloyd's Register
Foundation

009896-009903-0359

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits

1941 Oct 28 Nov 4. 11. 18. 25. 28 Dec 29. 16. 1942 Jan 6. 13. 15. 20. 28 Feb 10. 17. 24 Mar 3. 6. 10. 17. 24 Apr 7. 14. 28 May 5. 12. 19 22. 25. Jun 4. 12. 26. July 28 Aug 11 Sep 8. Oct 14 Nov 5. 17. 30 Dec 3. 8. 19 43 Jan 5. 11. 16 Feb 9. 16 Mar 9. 94

Dates of Examination of principal parts--Cylinders

Pistons

Crank shaft

Tube shaft

Stern tube

Completion of fitting sea connections

Completion of pumping arrangements

Main boiler safety valves adjusted

Crank shaft material

Intermediate shafts, material

Screw shaft, material

Is an installation fitted for burning oil fuel

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 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

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

These Engines have been built under special survey in accordance with the approved plans and the Society's Rules and requirements, the materials and workmanship are good.

Note. H. P. crank pin, the oil gutterway is carried for full length of pin.

The requirements of The Ministry of Shipping specifications have been carried out satisfactorily.

These Engines have not yet been allocated to a vessel

The amount of Entry Fee ... £ : : When applied for, 7.5.43
Special ... £ 41 : 9 :
Donkey Boiler Fee ... £ 10 : 3 :
Travelling Expenses (if any) £ : : When received, 19

Committee's Minute

Assigned

Referred for
Completion

Jas. Cairns,

Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 28 JUL 1944

Lloyd's Register Foundation