

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

JAN 27 1938

26 JAN 1938

Date of writing Report 19 When handed in at Local Office 26 JAN 1938 Port of SUNDERLAND.

No. in Survey held at SUNDERLAND. Date, First Survey 5 May 37 Last Survey 20 Jan 1938
Reg. Book. (Number of Visits 62)

on the S.S. MONKWOOD Tons Gross 1591 Net 922

Built at Sunderland By whom built S.P. Austin & Son Ltd Yard No. 345 When built 1938

Engines made at Sunderland By whom made N.E. Marine Eng. Co. Ltd Engine No. 2900 When made 1938

Boilers made at Sunderland By whom made N.E. Marine Eng. Co. Ltd Boiler No. 2900 When made 1938

Registered Horse Power Owners W. France Fenwick & Co. Ltd Port belonging to London

Nom. Horse Power as per Rule 176 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, Poppet valves N.E. & P.P.* Revs. per minute

Dia. of Cylinders *5 1/2", 4 1/2", 2 5/8"* Length of Stroke *33"* No. of Cylinders *3* No. of Cranks *3*

Crank shaft, dia. of journals as per Rule *appd.* Crank pin dia. *9 3/4"* Crank webs Mid. length breadth *5 3/4"* Thickness parallel to axis *5 3/4"*
as fitted *9 1/2"* Mid. length thickness *shrunk* Thickness around eye-hole *5 1/2"*
pin 4 7/8"

Intermediate Shafts, diameter as per Rule *---* Thrust shaft, diameter at collars as per Rule *---*
as fitted *---* as fitted *9 1/2"*

Tube Shafts, diameter as per Rule *---* Screw Shaft, diameter as per Rule *appd.* Is the *tube* shaft fitted with a continuous liner *---*
as fitted *---* as fitted *10 1/4"* Is the *screw* shaft fitted with a continuous liner *---*

Bronze Liners, thickness in way of bushes as per Rule *appd.* Thickness between bushes as per Rule *---* Is the after end of the liner made watertight in the
as fitted *3/4"* as fitted *1 1/2"* 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 shaft *no* If so, state type *---* Length of Bearing in Stern Bush next to and supporting propeller *3'-11"*

Propeller, dia. *13'-9"* Pitch *13.72* No. of Blades *4* Material *C.I.* whether Moveable *not* Total Developed Surface *68* sq. feet

Feed Pumps worked from the Main Engines, No. *2* Diameter *3"* Stroke *16 1/2"* Can one be overhauled while the other is at work *yes*

Bilge Pumps worked from the Main Engines, No. *2* Diameter *3"* Stroke *16 1/2"* Can one be overhauled while the other is at work *yes*

Feed Pumps No. and size *1, 7" x 5" x 12"* Pumps connected to the Main Bilge Line No. and size *1, 9" x 10" x 24"*
How driven *Steam* How driven *Steam*

Ballast Pumps, No. and size *1, 9" x 10" x 24"* Lubricating Oil Pumps, including Spare Pump, No. and size *---*

Are two independent means arranged for circulating water through the Oil Cooler *---* Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room *Engine Room 1 @ 2 1/2" dia. Boiler Room 2 @ 2 1/2" dia.*

In Pump Room *---* In Holds, &c. *Fore Hold 2 @ 3" dia. After hold 2 @ 3" dia.*

APR 27-1-38

Main Water Circulating Pump Direct Bilge Suctions, No. and size *1 @ 5"* Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size *1 @ 3 1/2"* 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 sized 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 *Hold suction* How are they protected *heavy timber*

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 *---* Is it fitted with a watertight door *---* worked from *---*

MAIN BOILERS, &c.—(Letter for record *S*) Total Heating Surface of Boilers *2570 sq. ft.*

Is Forced Draft fitted *yes* No. and Description of Boilers *2 Cylindrical Multitubular* Working Pressure *220 lbs.*

IS A REPORT ON MAIN BOILERS NOW FORWARDED? *yes*

IS A DONKEY BOILER FITTED? *no* If so, is a report now forwarded? *---*

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

PLANS. Are approved plans forwarded herewith for Shafting *12/3/37* Main Boilers *yes* Auxiliary Boilers *---* Donkey Boilers *---*
(If not state date of approval)

Superheaters *details* General Pumping Arrangements *29/7/37* 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.

12 Condenser Tubes

48 Journals

1 Safety Valve Spring

20% Superheater jointing nuts for element

10% " " " "

5% " " " "

270 " " " "

The foregoing is a correct description, FOR THE NORTH EASTERN MARINE ENGINEERING CO. LD

Archd. J. Bevy. GENERAL MANAGER.

Manufacturer.



© 2021

Lloyd's Register Foundation

1m.3.32. T. 301 K. - The words which do not appear in the margin of this page are not to be taken into consideration.

Dates of Survey while building

During progress of work in shops - - 1937. May 5 June 13 7 15 July 29 15 19 22 Aug 9 11 12 17 18 26 27 Sep 2 7 8 16
 17 30 Oct 14 21 26 Nov 3 9 10 11 12 15 16 18 19 22 23 24 25 26 27 29 30 Dec 1 2 3
 During erection on board vessel - - - 6 7 9 14 16 21 22 28 29 31 1938. Jan 5 6 7 12 18 20
 Total No. of visits 62

Dates of Examination of principal parts—Cylinders 11/27/37 Slides 2/12/37 Covers 11/28/37
 Pistons 26/11/37 Piston Rods 29/11/37 Connecting rods 7/12/37
 Crank shaft 8/9/37 Thrust shaft 26/11/37 Intermediate shafts —
 Tube shaft — Screw shaft 26/11/37 Propeller 26/11/37
 Stern tube 25-27/11/37 Engine and boiler seatings 24/11/37 Engines holding down bolts 6/1/38
 Completion of fitting sea connections 1/12/37
 Completion of pumping arrangements 18/1/38 Boilers fixed 29/12/37 Engines tried under steam 7/1/38
 Main boiler safety valves adjusted 7/1/38 Thickness of adjusting washers Port 5/16 inch. 5/16 Standard. 5/16 inch. 5/16 inch. Standard 5/16 do 1/4 do 5/16 do
 Crank shaft material Steel Identification Mark 9814 Thrust shaft material Steel Identification Mark 9823
 Intermediate shafts, material — Identification Marks — Tube shaft, material — Identification Mark —
 Screw shaft, material Steel Identification Mark 9823 Steam Pipes, material Steel Test pressure 660 lb Date of Test 2/9/37 to 2/12/37
 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 not required
 Is this machinery duplicate of a previous case NO If so, state name of vessel —

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, the Secretary's letters and the requirements of the Rules. Workmanship and materials are good. The machinery has been efficiently fitted on board and tried under working conditions and found satisfactory and in slight, in my opinion, for the

NOTATION + L.M.C. 1.38.

L.R. Home

Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 3 : - : When applied for,
 Special ... £ 44 : - : 21 Jan 1938
 Donkey Boiler Fee ... £ : : When received,
 Travelling Expenses (if any) £ : : 26 Jan 1938

Committee's Minute TUE. 1 FEB 1938
 Assigned + Lmc 1.38 Spt. J.B. Cl.

SUNDERLAND

The Surveyors are requested not to write on or below the space for Committee's Minute.

