

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 12 JAN 1943

Date of writing Report 19 5 Jan 1943 Port of Sunderland
 When handed in at Local Office 5 Jan 1943
 No. in Survey held at Sunderland Date, First Survey 17 July 1942 Last Survey 1st Jan 1943
 Reg. Book "STAN LODGE" (Number of Visits 55)
 on the "STAN LODGE" Tons (Gross 5976.50 Net 4048.93)
 Built at Sunderland By whom built W. Pickersgill & Sons L^{td} Yard No. 256 When built 1942
 Engines made at Sunderland By whom made G. Clark (1938) L^{td} Engine No. 1241 When made 1942
 Boilers made at Sunderland By whom made G. Clark (1938) L^{td} Boiler No. 1241 When made 1942
 Registered Horse Power 496 Owners Stanhope S. S. Co L^{td} Port belonging to London
 Nom. Horse Power as per Rule 496 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 on H.P. & M.P. Cyls.) Revs. per minute _____
 Dia. of Cylinders 23 1/2" - 38" - 66" Length of Stroke 45" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals 13.3" as per Rule 13.3" Crank pin dia. 13 3/4" Crank webs H.P.L.P 8 3/8" Mid. length breadth 24" Thickness parallel to axis M.P. 8 3/4"
 as fitted 13 3/4" Mid. length thickness M.P. 8 3/4" shrunk Thickness around eye-hole JOURNAL 4 3/8"
 Intermediate Shafts, diameter 12.64" as per Rule _____ as fitted _____ Thrust shaft, diameter at collars 13 3/4" as per Rule 13.3" as fitted _____
 Tube Shafts, diameter _____ as per Rule _____ as fitted _____ Screw Shaft, diameter 14.14" as per Rule 14.14" as fitted 14 3/4" Is the { tube screw } shaft fitted with a continuous liner Yes
 Bronze Liners, thickness in way of bushes 3/4" as per Rule 3/4" as fitted _____ Thickness between bushes 2/32" as per Rule 2/32" 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 at _____ If so, state type _____ Length of Bearing in Stern Bush next to and supporting propeller 4-11"
 Propeller, dia. 14.3" Pitch 16.0" No. of Blades 4 Material C.I. whether Moveable No Total Developed Surface 104 1/2 sq. feet
 Feed Pumps worked from the Main Engines, No. _____ Diameter _____ Stroke _____ Can one be overhauled while the other is at work _____
 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 - 9 1/2" x 4" x 21" Pumps connected to the Main Bilge Line { No. and size 1 @ 4" x 5" x 8" Ballast pump
 How driven Steam How driven Steam
 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 _____ Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps:—In Engine and Boiler Room 3 @ 3" in E.R. 1 @ 3" in Shunt room, 1 @ 2 1/2" in Tunnel well
 In Pump Room _____ In Holds, &c. N^o 1. 3" φ rs. N^o 2. 3 1/2" φ rs. N^o 2 A. 2 1/2" φ rs. N^o 3. 3" φ rs. N^o 4. 3" φ rs.

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 8" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 5"
 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 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 For bilge Suctions How are they protected Lead Casings
 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 Yes Is it fitted with a watertight door No (Bellied) worked from _____

MAIN BOILERS, &c.—(Letter for record S.) Total Heating Surface of Boilers Main 5430 sq ft Aux. 1486 sq ft = 7516
 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. 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? Yes
 Can the donkey boiler be used for domestic purposes only _____

PLANS. Are approved plans forwarded herewith for Shafting _____ Main Boilers Retained for Sister Vessels Auxiliary Boilers Retained for Sister Vessels Donkey Boilers _____
 Superheaters _____ General Pumping Arrangements Retained for Sister Vessels 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 1 C.I. Propeller, 1 hatt. End bearings Complete with bolts & nuts, 2 top end bearings with balls & nuts, 6 Couplings bolts & nuts, 12 piston studs, 2 bilge pump valves & seats, 1 set air pump valves, 1 set packing rings for H.P. Piston, 1 set wearin parts for 1 piston rod metallic packing, 1 set pads for ahead side tunnel block, 2 valves for Poppet Valve gear (1 for H.P. 1 for M.P.) 2 rollers with pins, 2 roller bearings, 2 main springs (1 H.P. 1 M.P.)

The foregoing is a correct description.

GEORGE CLARK (1888) LTD

Archie J. Berry
DIRECTOR & GENERAL MANAGER

Manufacturer.



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Lloyd's Register Foundation

003092-030916-0235

Dates of Survey while building

During progress of work in shops - - 1942. July. 17. 22. 23. 27. 28. 30. 31. Aug. 7. 21. 24. 31. Sep. 10. 14. 15. 16. 17. 21. 22. 24. 28. 30. Oct. 1. 5. 6. 9. 12. 16. 20. 21. 23. 26. 29. Nov. 2. 5. 6. 10. 13. 16. 17. 19. 20. 23. 24. 26. 27. 30. Dec. 1. 7. 8. 9. 11. 13. 19. 29.

During erection on board vessel - - - 1943. Jan. 1.

Total No. of visits. 55.

Dates of Examination of principal parts - Cylinders L.P. 24/8/42 H.P. 24/8/42 M.P. 10/9/42. Slides L.P. 15/9/42. Covers 21/8/42.

Pistons 5/10/42 Piston Rods 5/10/42 Connecting rods 16/10/42

Crank shaft 16/9/42 Thrust shaft 1/10/42 Intermediate shafts 14/11/42.

Tube shaft - Screw shaft 6/10/42 Propeller 6/11/42

Stern tube 29/10/42 Engine and boiler seatings 9/12/42. Engines holding down bolts 9/12/42.

Completion of fitting sea connections 20/10/42

Completion of pumping arrangements 29/12/42. Boilers fixed 9/12/42. Engines tried under steam 19/12/42 P 1/2"

Main boiler safety valves adjusted 19/12/42 Thickness of adjusting washers. Port Bl. P 1/16" Aux. Bl. P 3/8" St. Bl. S 1/2"

Crank shaft material Ingot-Steel Identification Mark 16/9/42 Thrust shaft material Ingot-Steel Identification Mark 1/10/42

Intermediate shafts, material Ingot-Steel Identification Marks 4821, 7883 Tube shaft, material - Identification Mark -

Screw shaft, material Ingot-Steel Identification Mark 6/10/42 Steam Pipes, material S.D. Steel Test pressure 660 lbs/sq. Date of Test 11/12/42

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 decided.

Is this machinery duplicate of a previous case. No. If so, state name of vessel S/S STANBANK (has in this case an aux. bl. fitted).

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

This machinery has been built under Special Survey in accordance with the approved plans & the rules of the Society. The materials & workmanship are good. It has been securely fitted on board the vessel & tried under working conditions alongside quay with satisfactory results & now eligible in my opinion to have notation of 2 1/2 L.M.C. 1.43 T.S.(C.L), 2 S.B. 1 Aux. (F.D.) 220 lbs/sq.

SUNDERLAND.

The amount of Entry Fee ... £ 5 : : When applied for, 5 JAN 1943

Special ... £ 99 : 8 : : When received,

Donkey Boiler Fee ... £ : : : 19

Travelling Expenses (if any) £ : : : 19

J. H. Law
Engineer Surveyor to Lloyd's Register of Shipping.

FRI, 22 JAN 1943

Committee's Minute ...
Assigned ... *J. H. Law*