

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

3 OCT 1933

Date of writing Report 24.9.33 When handed in at Local Office 2 OCT. 1933 Port of Sunderland  
 No. in Survey held at Sunderland Date, First Survey 30 Mar Last Survey 27 Sep. 1933  
 Reg. Book. S/S "COLONEL CROMPTON" (Number of Visits 3037) Gross 1495 Tons  
 Built at Sunderland By whom built S.P. Austin & Sons Yard No. 324 Net 844 Tons  
 Engines made at Sunderland By whom made J. Dickin & Sons Ltd Engine No. 913 when made 1933  
 Boilers made at Sunderland By whom made J. Dickin & Sons Ltd Boiler No. 913 when made 1933  
 Indicated Horse Power 158 Owners London Power Co Ltd Port belonging to London  
 Horse Power as per Rule 158 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted Yes  
 for which Vessel is intended

**ENGINES, &c.**—Description of Engines Inverted Triple Expansion Revs. per minute 1/5  
 No. of Cylinders 3 No. of Cranks 3  
 Length of Stroke 33" Mid. length breadth 18 1/4" Thickness parallel to axis 5 1/8"  
 shaft, dia. of journals 9.309 as per Rule 9 1/2" Crank pin dia. 9 1/2" Crank webs 5 7/8" shrunk Thickness around eye-hole 4 3/16"  
 as fitted 8.865 as per Rule 9.309 as fitted 9 1/2" Thrust shaft, diameter at collars 9.99 as per Rule 10 1/4" as fitted 9 1/2"  
 Intermediate Shafts, diameter none as fitted none Is the none screw shaft fitted with a continuous liner Yes  
 Shafts, diameter none as fitted none as per Rule 0.6 as fitted 5/8" Thickness between bushes 5/8" Is the after end of the liner made watertight in the stern tube Yes  
 Is the liner 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 tight fit  
 If the liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft no.  
 Length of Bearing in Stern Bush next to and supporting propeller 3'-6"  
 Propeller, dia. 13'-3" Pitch 13'-6" No. of Blades 4 Material Bronze whether Movable no. Total Developed Surface 57 sq. feet  
 Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 16 1/2" Can one be overhauled while the other is at work Yes  
 Pumps worked from the Main Engines, No. 2 Diameter 3 1/2" Stroke 16 1/2" Can one be overhauled while the other is at work Yes  
 No. and size one 5 1/2" x 3 1/2" x 5" Pumps connected to the Main Bilge Line { No. and size one 9" x 11" x 10" How driven Steam  
 How driven Steam Lubricating Oil Pumps, including Spare Pump, No. and size 1 @ 5"  
 Independent means arranged for circulating water through the Oil Cooler  
 Pumps:—In Engine and Boiler Room 2 @ 2 1/2" (D.P.S.) in Engine Room Suctions, connected to both Main Bilge Pumps and Auxiliary Pumps, &c. Fore hold 2 @ 2 1/2" (D.P.S.) aft hold 2 @ 3" (D.P.S.) 1 @ 2 1/2" aft-well.

**Water Circulating Pump** Direct Bilge Suctions, No. and size 1 @ 3 1/2" 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  
 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  
**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 plate 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  
 How are they protected wood casings  
 Pipes pass through the bunkers Fore hold bilge suction Have they been tested as per Rule Yes  
 Pipes pass through the deep tanks Fore hold bilge suction  
 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes  
 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 none Is it fitted with a watertight door worked from

**MAIN BOILERS, &c.**—(Letter for record S.) Total Heating Surface of Boilers 2668 sq ft  
 Working Pressure 200 lbs/sq in  
 Is a report on MAIN BOILERS NOW FORWARDED? Yes  
 Is a DONKEY BOILER FITTED? Yes so, is a report now forwarded? Yes  
 Are approved plans forwarded herewith for Shafting Main Boilers Yes Auxiliary Boilers Yes Donkey Boilers Yes  
 General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements Yes

**RE GEAR.** State the articles supplied:—  
one Cast iron Propeller, 2 bottom end bolts & nuts, 2 top end bolts & nuts, 2 main bearing bolts & nuts, one set of coupling bolts & nuts, 2 feed pump valves, 2 bilge pump valves, main check valve lid, 1 auxiliary check valve lid, 13 plain tubes, 50 Condenser flanges, 6 fund ring studs & nuts, 1 set air pump valves, 6 Condenser tubes, one set ballast pump valves, one set donkey valves, 1/2 cwt. assorted iron plate, 1/2 cwt. assorted iron bars, assorted bolts & nuts.

The foregoing is a correct description,

*S. Dickin*

Manufacturer.



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1933. *March* 30. *April* 21, 26. *May* 3, 10, 15, 18, 30. *June* 6, 8, 13, 27, 29. *July* 4, 5, 6, 12, 17.  
*Aug.* 1, 11, 14, 16, 21, 23, 29, 30, 31. *Sep.* 4, 5, 6, 8, 11, 12, 13, 14, 18, 27.

Dates of Survey while building }  
 During progress of work in shops -- }  
 During erection on board vessel --- }  
 Total No. of visits 37.

Dates of Examination of principal parts—Cylinders *March 30, Apr. 16, June 6, 13.* Slides 14. 8. 33. Covers 14. 8. 33.  
 Pistons 11. 8. 33 Piston Rods 11. 8. 33 Connecting rods 27. 6. 33.  
 Crank shaft *May 3 July 5.* Thrust shaft 27. 6. 33. Intermediate shafts ✓  
 Tube shaft ✓ Screw shaft *Aug. 1, 11, 21.* Propeller 21. 8. 33.  
 Stern tube 27. 6. 33 Engine and boiler seatings 27. 6. 33. Engines holding down bolts 11. 9. 33.

Completion of fitting sea connections 4. 7. 33.  
 Completion of pumping arrangements 18. 9. 33. Boilers fixed 6. 9. 33. Engines tried under steam 18. 9. 33  
 Main boiler safety valves adjusted 18. 9. 33. Thickness of adjusting washers P. 5/16" S. 5/16"

Crank shaft material *Steel* Identification Mark *LLOYDS 9245 W.H.F. 5. 4. 33* Thrust shaft material *Steel* Identification Mark *LLOYDS 9254 W.H.F. 27. 6. 33*  
 Intermediate shafts, material ✓ Identification Marks *LLOYDS 9271 W.H.F. 11. 8. 33* Tube shaft, material ✓ Identification Mark *27. 6. 33*  
 Screw shaft, material *Steel* Identification Mark *LLOYDS 9271 W.H.F. 11. 8. 33* Steam Pipes, material *S.S. Steel* Test pressure 600 *lbs/sq. in.* Date of Test 8. 9. 33.  
 Is an installation fitted for burning oil fuel ✓ Is the flash point of the oil to be used over 150°F. ✓

Have the requirements of the Rules for carrying and burning oil fuel been complied with ✓  
 Is this machinery duplicate of a previous case *No.* If so, state name of vessel

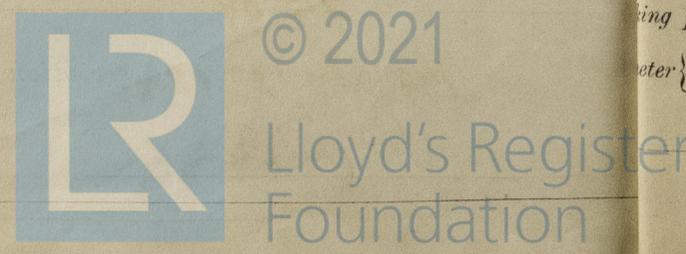
General Remarks (State quality of workmanship, opinions as to class, &c.)  
*This machinery has been built under Special Survey in accordance with the Rules of the Society. The materials & workmanship are good. The machinery has been securely fitted on board the vessel & tried under steam with satisfactory results & is eligible in my opinion, to have notation of L.M.C. 9. 33, T.S (CL) in the Register Book.*

The amount of Entry Fee ... £ 3 : - : When applied for,  
 Special ... £ 39 : 10 : 2 OCT. 1933  
 Donkey Boiler Fee ... £ : : When received,  
 Travelling Expenses (if any) £ : : 4. 10. 1933

*W. H. Fraser*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 10 OCT 1933

Assigned + L.M.C. 9.33  
 C.L.



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

CERTIFICATE WRITTEN