

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

THU 14 AUG 1924

Date of writing Report 10 When handed in at Local Office 5/8/1924 Port of NEWCASTLE-ON-TYNE

No. in Survey held at Newcastle Date, First Survey 12<sup>th</sup> May 1924 Last Survey 5<sup>th</sup> August 1924  
 Reg. Book. 87747 on the Shell Co. "ALGOL" (Number of Visits 19)

Built at Newcastle By whom built W. Doherty & Co. Yard No. 223 Tons } Gross 1564  
 } Net 946  
 Engines made at Newcastle By whom made North Eastern Marine Eng. Co. Ltd. Engine No. 2588 when made 1924  
 Boilers made at Newcastle By whom made North Eastern Marine Eng. Co. Ltd. Boiler No. 2588 when made 1924

Registered Horse Power \_\_\_\_\_ Owners R. H. Kennedy & Sons Port belonging to Shoreham  
 Nom. Horse Power as per Rule 176 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes

## ENGINES, &c.—Description of Engines

Inverted Triple Expansion

Dia. of Cylinders 17 1/2"-29"-48" Length of Stroke 33" Revs. per minute \_\_\_\_\_ No. of Cylinders 3 No. of Cranks 3  
 Dia. of Crank shaft journals as per rule 9.276" as fitted 9 3/8" Dia. of Crank pin 9 3/8" Crank webs Mid. length breadth 16" Thickness parallel to axis 5 3/8"  
 Mid. length thickness 5 3/8" shrunk Thickness around eye-hole 4 1/8"  
 Diameter of Thrust shaft under collars as per rule 9.276" as fitted 9 3/4" Diameter of Tunnel shaft as per rule 8.82" as fitted 8 7/8" Diameter of Screw shaft as per rule 10.1" as fitted 10 5/8" Is the Screw shaft fitted with a continuous liner the whole length of the stern tube Yes 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 joints burned \_\_\_\_\_ If the liner does not fit lightly 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 appliance fitted at the after end of the shaft to permit of it being efficiently lubricated No. Length of Stern Bush 45" Diameter of Propeller 12'-9"  
 Pitch of Propeller 12'-9" No. of Blades 4 State whether Moveable No. Total Surface 50 square feet.  
 No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 3" Stroke 16 1/2" Can one be overhauled while the other is at work Yes  
 No. of Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 3" Stroke 16 1/2" Can one be overhauled while the other is at work Yes  
 Total number and size of power driven Feed and Bilge Auxiliary Pumps 2 Feed Donkey 6x4x6" Ballast 8"x10"x10"  
 No. and size of Pumps connected to the Main Bilge Line Two Main Engine Rams - Ballast Pump  
 No. and size of Ballast Pumps One 8"x10"x10" No. and size of Lubricating Oil Pumps, including Spare Pump No.  
 Are two independent means arranged for circulating water through the Oil Cooler \_\_\_\_\_ No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 3-2 1/2" and in Holds, &c. Forward 2-3" Aft 2-3"  
Tunnel well 1-2 1/4"

No. and size of Main Water Circulating Pump Bilge Suctions One 5" No. and size of Donkey Pump Direct Suctions to the Engine Room Bilges One - 3 1/4" 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 connections with the sea direct on the skin of the ship Yes Are they 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 Discharge Pipes above or below the deep water line Both  
 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 are carried through the bunkers Forward Bilge Suctions How are they protected Wood-cased  
 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 Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Store

## MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 3150 sq ft

Is Forced Draft fitted No. No. and Description of Boilers 2 Single-Ended Cyl. Hull. Working Pressure 180 lbs.  
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes  
 IS A DONKEY BOILER FITTED? No. If so, is a report now forwarded? \_\_\_\_\_

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

General Pumping Arrangements \_\_\_\_\_ Oil fuel Burning Piping Arrangements \_\_\_\_\_  
 SPARE GEAR. State the articles supplied:— One Propeller Shaft - One Cast Iron propeller, 2 Top and Bottom Bolts & Nuts, 2 Bottom and Bolts & Nuts, 2 Main Bearing Bolts & Nuts, 6 Coupling Bolts & Nuts, 2 Feed Pump Valves, 2 Bilge Pump valves - One set of Springs for L. P. piston - Assorted Bolts, nuts & Irons

The foregoing is a correct description

THE NORTH EASTERN MARINE ENGINEERING Co., LTD.

Manufacturer.

*J. Harrison*  
Secretary.

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1924  
 May 12. June 11. 20. July 4. 10. 11. 17. 18. 21. 22. 23. 24. 25. 29. 30. 31. Aug. 1. 2. 5.

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

19.

Dates of Examination of principal parts - Cylinders 17. 7. 24 Slides 18. 7. 24  
 Covers 17. 7. 24 Pistons 18. 7. 24 Rods 4. 7. 24  
 Connecting rods 4. 7. 24 Crank shaft 11. 7. 24 Thrust shaft 20. 6. 24  
 Tunnel shafts 20. 6. 24 Screw shaft 11. 7. 24 Propeller 4. 7. 24  
 Stern tube 20. 6. 24 Engine and boiler seatings 24. 7. 24 Engines holding down bolts 30. 7. 24  
 Completion of pumping arrangements 2. 8. 24 Boilers fixed 29. 7. 24 Engines tried under steam 2. 8. 24  
 Completion of fitting sea connections 1. 7. 24 Stern tube 1. 7. 24 Screw shaft and propeller 24. 7. 24  
 Main boiler safety valves adjusted 2. 8. 24 Thickness of adjusting washers *Cal Blk P 3/32" S 3/2" Min. Blk. P 1/2" S 15/32"*  
 Material of Crank shaft S. M. Steel Identification Mark on Do. *Slipds 6871N*  
 Material of Thrust shaft S. M. Steel Identification Mark on Do. *Slipds 6871N*  
 Material of Tunnel shafts S. M. Steel Identification Marks on Do. *Slipds 6871N*  
 Material of Screw shafts S. M. Steel Identification Marks on Do. *Slipds 6871N*  
 Material of Steam Pipes S. D. Steel ✓ Test pressure 540 *lbd* ✓ Date of Test 26<sup>th</sup> + 31. 7. 24 ✓  
 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 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.)  
 The machinery of this vessel has been constructed under special survey. The workmanship and materials are sound and good. It has been efficiently installed on board the vessel and tried out under steam at a mooring trial. The safety valves were adjusted under steam. The machinery of this vessel is eligible, in my opinion, for notation in the Society's Register Book of +L.M.C. 8. 24 C.L.

It is submitted that this vessel is eligible for THE RECORD. +L.M.C. 8. 24 C.L.  
*R.A.*  
*14/8/24*  
*ARR*

NEWCASTLE-ON-TYNE

The amount of Entry Fee ... £ 3 : - : When applied for  
 Special ... £ 44 : - : 27. AUG 1924  
 Donkey Boiler Fee ... £ - : - : When received  
 Travelling Expenses (if any) £ - : - : 19

*R. H. Jones*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 19 AUG 1924  
 Assigned +L.M.C. 8. 24 C.L.

