

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 26 AUG 1924

Date of writing Report 19... When handed in at Local Office 23/8/24 Port of **NEWCASTLE-ON-TYNE** Hull. 26-9/24
 No. in Survey held at **Newcastle-on-Tyne** Date, First Survey 4th March 1924 Last Survey 21st August 1924
 Reg. Book. 887410 on the **Steel Ss. CYRILLE DANNEELS** (Number of Visits 38.)
 Built at **Goole** By whom built **Goole S. B. Co. Ltd.** Yard No. 257 When built 1924
 Engines made at **Newcastle** By whom made **New Eastern Marine Eng. Co. Ltd.** Engine No. 2566 when made 1924
 Boilers made at **Newcastle** By whom made **New Eastern Marine Eng. Co. Ltd.** Boiler No. 2566 when made 1924
 Registered Horse Power Owners **Buck Steer Shipping & Coal Exporters Ltd.** Port belonging to **Goole**
 Nom. Horse Power as per Rule 204^{1/2} Is Refrigerating Machinery fitted for cargo purposes **no** Is Electric Light fitted

ENGINES, &c.—Description of Engines **Inverted Triple Expansion**
 Dia. of Cylinders 19"-31"-52" Length of Stroke 36" Revs. per minute No. of Cylinders 3 No. of Cranks 3
 Dia. of Crank shaft journals as per rule 10.072" as fitted 10 1/4" Dia. of Crank pin 10 1/4" Crank webs Mid. length breadth 16 13/16" Thickness parallel to axis 6 1/4" shrunk
 Diameter of Thrust shaft under collars as per rule 10.072" as fitted 10 1/4" Diameter of Tunnel shaft as per rule 9.593" as fitted 9 5/8" Diameter of Screw shaft as per rule 10.9" as fitted 11 1/4" 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 **Yes** 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 **Yes**
 If two liners are fitted, is the shaft lapped or protected between the liners **Yes** Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated **Yes** Length of Stern Bush 50" Diameter of Propeller 13'6" square feet.
 Pitch of Propeller 13'6" No. of Blades 4 State whether Moveable **no** Total Surface 56 square feet.
 No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 3" Stroke 20" 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 20" Can one be overhauled while the other is at work **Yes**
 Total number and size of power driven Feed and Bilge Auxiliary Pumps **Two. 7"x11 1/2"x8" 7"x8"x8"**
 No. and size of Pumps connected to the Main Bilge Line **2 Main Engine Bilge Rams + Ballast**
 No. and size of Ballast Pumps **One 7"x8"x8"** No. and size of Lubricating Oil Pumps, including Spare Pump **None**
 Are two independent means arranged for circulating water through the Oil Cooler **Yes** No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room **E.R. 2-2 1/2" 2 Hold 1-3 1/2"** and in Holds, &c. **No. 2 Hold 2-2 3/4"**
No. 3 Hold 2-2 1/2" 4th Hold + Tunnel Well 3 1/2"

No. and size of Main Water Circulating Pump Bilge Suctions **One 6"** No. and size of Donkey Pump Direct Suctions to the Engine Room Bilges **One 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 connections with the sea direct on the skin of the ship **Yes except main injection valve. Both** Are they Valves or Cocks **Both**
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stowage 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 **See hull report worked from**

MAIN BOILERS, &c.—(Letter for record **S**) Total Heating Surface of Boilers **3540 sq ft**
 Is Forced Draft fitted **no** No. and Description of Boilers **Two Single End Cyl. built** Working Pressure **180 lbs/sq in**
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? **Yes**
 IS A DONKEY BOILER FITTED? **no** If so, is a report now forwarded? **Yes**
PLANS. Are approved plans forwarded herewith for Shafting **Yes** Main Boilers **Yes** Auxiliary Boilers **Yes** Donkey Boilers **Yes**
 General Pumping Arrangements **Yes** Oil fuel Burning Piping Arrangements **Yes**

SPARE GEAR. State the articles supplied:— **One Cast Iron Propeller, 2 Bottom End Bolts + Nuts, 2 Top End Bolts + Nuts, 2 Main Bearing Bolts + Nuts, 2 Main Bearing Bolts + Nuts, six Coupling Bolts + Nuts, Half set of Coach Springs for L.P. Piston Rings, Two Feed Pump Valves, Two Bilge Pump Valves, Assorted Bolts, nuts + rivs.**

The foregoing is a correct description

G. Stephenson

Manufacturer.



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Lloyd's Register Foundation

W 472-0126

1924
 During progress of work in shops - - - Mar 4, 5, 10, 27, 31, Apr. 2, 3, 7, 9, 11, 15, 24, 28, 30, May 5, 6, 9, 15, 19, 28, 29, June 11, 13, 19, 20, July 1, 10, 18, 21
 Dates of Survey while building }
 During erection on board vessel - - - } 29, 31, Aug 5, 6, 7, 8, 15, 21, 18.
 Hull - Sep. 3, 15, 26
 Total No. of visits 38.

Dates of Examination of principal parts - Cylinders 19. 6. 24 Slides 27. 7. 24
 Covers 24. 4. 24 Pistons 7. 4. 24 Rods 20. 6. 24
 Connecting rods 20. 6. 24 Crank shaft 9. 5. 24 Thrust shaft 10. 3. 24
 Tunnel shafts 11. 6. 24 Screw shaft 29. 5. 24 Propeller 24. 4. 24
 Stern tube 2. 4. 24 Engine and boiler seatings 5. 8. 24 Engines holding down bolts 18. 8. 24
 Completion of pumping arrangements 21. 8. 24 Boilers fixed 18. 8. 24 Engines tried under steam 21. 8. 24
 Completion of fitting sea connections at Goolie Stern tube at Goolie Screw shaft and propeller 8. 8. 24
 Main boiler safety valves adjusted 21. 8. 24 Thickness of adjusting washers Port Boiler P+S 3/16 Star Boiler P+S 3/8"
 Material of Crank shaft S. M. Steel Identification Mark on Do. 6832 N.
 Material of Thrust shaft S. M. Steel Identification Mark on Do. 6832 N.
 Material of Tunnel shafts S. M. Steel Identification Marks on Do. 6832 N.
 Material of Screw shafts Scrap Iron Identification Marks on Do. 6889 N.
 Material of Steam Pipes Solid Drawn Copper Test pressure 360 lbs. Date of Test 15. 8. 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 materials and workmanship are sound and good. It has been efficiently installed on the steamer "Byville Danneels" and tried out under steam at a mooring trial. The boilers' safety valves were adjusted under steam.

In my opinion the vessel will be eligible for notation L.M.C. with date when the water-light door to the screw shaft tunnel has been fitted and the electric light installed. The Hull Surveyor advises, see Hull Rpt 35359.

It is submitted that this vessel is eligible for THE RECORD. + LMC 9.24. CL.

[Signature]
 17/10/24

[Signature]
 R. Lee Amess
 Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 4 : - : When applied for, 25 AUG 1924
 Special ... £ 51 : - :
 Donkey Boiler Fee ... £ : : When received, 12th Sept 24
 Travelling Expenses (if any) £ : :
 Committee's Minute as per Sec's Report dated 12-9-24
 Assigned + LMC 9.24 C.L.

TUES. 21 OCT 1924

CERTIFICATE WRITTEN



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