

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

22 JUN 1931

Writing Report 19 When handed in at Local Office 19<sup>th</sup> June 1931 Port of Belfast

Survey held at Book. Date, First Survey 9<sup>th</sup> January Last Survey 16<sup>th</sup> June 1931

on the STEEL TWIN SC. "MARASKY" (Number of Visits 16)

at Belfast By whom built Harland & Wolff Ltd. Yard No. 915 Tons Gross Not

When built 1931

Engines made at Belfast By whom made Harland & Wolff Ltd. Engine No. 915 When made 1931

Boilers made at Belfast By whom made Harland & Wolff Ltd. Boiler No. 915 When made 1931

Horse Power Owners Lago Shipping Co. Ltd. (A. Menzies & Co. Ltd.) Port belonging to London

Power as per Rule 314 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes

which Vessel is intended Ocean-going.

S, &c.—Description of Engines Inverted triple expansion Revs. per minute

Cylinders 16"-26"-42" Length of Stroke 28" No. of Cylinders 6 No. of Cranks 6

dia. of journals as per Rule 8.135" as fitted 8.3" Crank pin dia. 8.3" Crank webs Mid. length breadth 16" Mid. length thickness 5 7/8" shrunk Thickness parallel to axis 5 3/8" Thickness around eye-hole 3 1/16"

Thrust shaft, diameter as per Rule 8.135" as fitted 8 1/2"

Screw Shaft, diameter as per Rule 9" as fitted 9 1/4" Is the shaft fitted with a continuous liner No.

ers, thickness in way of bushes as per Rule 30 1/2" as fitted 30 1/2" Thickness between bushes as per Rule 7 1/2" as fitted 7 1/2" Is the after end of the liner made watertight in the Yes

If the liner is in more than one length are the junctions made by fusion through the whole thickness of 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

are fitted, is the shaft lapped or protected between the liners No. Is an approved Oil Gland or other appliance fitted at the after end of the tube

If so, state type "Newark" by Ferguson Bros. Length of Bearing in Stern Bush next to and supporting propeller 37"

dia. 10'-6" Pitch 9'-6" No. of Blades 3 Material Man. Br. whether Moveable No. Total Developed Surface each 34 sq. feet

ps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 14" Can one be overhauled while the other is at work Yes

ps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 14" Can one be overhauled while the other is at work Yes

o. and size 2 1/2" x 7" x 21" Pumps connected to the Main Bilge Line No. and size 2 1/2" x 10" x 21" General Service 9 1/2" x 7" x 21"

ow driven Steam How driven Steam

mps, No. and size One 9" x 10" x 21" Lubricating Oil Pumps, including Spare Pump, No. and size None

pendent means arranged for circulating water through the Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary

In Engine and Boiler Room Forward 3" Aft 3 1/2"

om (to Cargo Pumps) One 2" In Holds, &c. (to Cargo Pumps) Two 2 1/2" to Hold Cargo Spaces.

Circulating Pump Direct Bilge Suctions, No. and size Two 5 1/2" Independent Power Pump Direct Suctions to the Engine Room Bilges, One 4 1/2"

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes

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 So far as is practicable

Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Yes

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

filled 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

pass through the bunkers None How are they protected

pass through the deep tanks Have they been tested as per Rule

s, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

ement 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 to another Yes Is the Shaft Tunnel watertight None Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 5112 sq. ft.

Draft fitted Yes No. and Description of Boilers Two single-end Cyl. Mult. Working Pressure 180 lbs.

REPORT ON MAIN BOILERS NOW FORWARDED? Yes

DONKEY BOILER FITTED? No If so, is a report now forwarded? Yes

boiler intended to be used for domestic purposes only

Are approved plans forwarded herewith for Shafting Main Boilers Yes Auxiliary Boilers Donkey Boilers

(If not state date of approval)

General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements Yes

## SPARE GEAR.

re gear required by the Rules been supplied Yes

Principal additional spare gear supplied See attached list.

The foregoing is a correct description.  
For HARLAND AND WOLFF, LIMITED.

Manufacturer.



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Lloyd's Register  
Foundation

004564-004572-0226



1931 Jan 9. 19. 22. 29. 30 Feb. 2. 3. 4. 6. 9. 16. 17. 18. 23. 25. 28. 29. 30. 31. Mar. 2. 14. 15. 10. 11. 12. 13.  
 During progress of work in shops - - 20. 23. 26. 27. 30. 31. Apr. 2. 9. 10. 13. 14. 15. 16. 17. 20. 21. 23. 24. 28. 29. 30. May  
 Dates of Survey while building During erection on board vessel - - 12. 13. 14. 15. 16. 18. 20. 21. 25. 26. 27. 28. 29 June 1. 2. 3. 4. 5. 8. 9. 10. 11. 12.  
 Total No. of visits 76

Dates of Examination of principal parts—Cylinders 16<sup>th</sup> + 23<sup>rd</sup> Apr 1931 Slides 16. 4. 31 Covers 10. 4. 31  
 Pistons 10. 4. 31 Piston Rods 21<sup>st</sup> + 24<sup>th</sup> Apr 1931 Connecting rods 30. 3. 31  
 Crank shaft 27. 3. 31 Thrust shaft 1. 5. 31 Intermediate shafts ✓  
 Tube shaft ✓ Screw shaft 24. 4. 31 Propeller 24. 4. 31  
 Stern tube 4. 4 + 15<sup>th</sup> May 1931 Engine and boiler seatings 20. 5. 31 Engines holding down bolts 8. 6. 31  
 Completion of fitting sea connections 20. 5. 31  
 Completion of pumping arrangements 9. 6. 31 Boilers fixed 12. 6. 31 Engines tried under steam 9. 6. 31  
 Main boiler safety valves adjusted 12. 6. 31 Thickness of adjusting washers Port Bldg Prs 7/16" Star Boiler Prs 5/8"  
 Crank shaft material S. M. Steel Identification Mark No. 154 R.L.A. Thrust shaft material S. M. Steel Identification Mark No. 15  
 Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓  
 Screw shaft, material S. M. Steel Identification Mark No. 156 R.L.A. Steam Pipes, material S.D. Steel Test pressure 540 lbs. Date of Test 23. 4.  
 Is an installation fitted for burning oil fuel Yes Is the flash point of the oil to be used over 150°F. Yes  
 Have the requirements of the Rules for the use of oil as fuel been complied with Yes  
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo lanter If so, have the requirements of the Rules been complied with Yes  
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have 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. The main propelling and auxiliary machinery under test have given satisfactory results. In my opinion the vessel is eligible for notation in the Society's Register Book. L.M.C. 6. 31 C.L. O.G. Boiler pressure 180 lbs. Fitted for oil fuel 6. 31 H.A. Electric light.

The amount of Entry Fee ... £ 5 : - :  
 Special ... £ 7 1/2 : 2 :  
 Donkey Boiler Fee ... £ - : - :  
 Travelling Expenses (if any) £ - : - :  
 When applied for, 19<sup>th</sup> June 1931  
 When received, 5. 8. 1931

Committee's Minute FRI. 28 JUN 1931  
 Assigned L.M.C. 6. 31 O.G.

R. Lee James.  
 Engineer Surveyor to Lloyd's Register of Shipping