

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

23 JUN 1927

Received at London Office

NEWCASTLE ON TYNE

Writing Report 18 June 1927 When handed in at Local Office 22 June 1927 Port of NEWCASTLE ON TYNE

Survey held at Walker on the STEEL TWIN SCREW STEAMER JUNA

at Walker By whom built Swan Hunter, Wigham Richardson & Co. Ltd. Yard No. 1230

Engines made at Walker By whom made Swan Hunter, Wigham Richardson & Co. Ltd. Engine No. 1230

Boilers made at Walker By whom made Swan Hunter, Wigham Richardson & Co. Ltd. Boiler No. 1230

Owners British India Steam Navigation Co. Ltd. Port belonging to London

Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

Horse Power as per Rule 469 for which Vessel is intended Ocean

INES, &c. — Description of Engines *Twice screw Triple Expansion* Revs. per minute *3 x 2 = 6*

of Cylinders *16 1/2 - 28 1/2 - 48* Length of Stroke *33"* No. of Cranks *3 x 2 = 6*

Crank shaft, dia. of journals *9 3/4"* as per Rule *9 1/2"* Crank pin dia. *9 3/4"* Mid. length breadth *15"* Thickness parallel to axis *6 1/8"*

Intermediate Shafts, diameter *9"* as per Rule *9"* Thrust shaft, diameter at collars *9 1/2"* as per Rule *9 1/2"*

Shafts, diameter *9"* as per Rule *9"* Is the tube shaft fitted with a continuous liner *Yes*

Size Liners, thickness in way of bushes *2 1/32"* as per Rule *2 1/32"* Thickness between bushes *5/8"* as per Rule *5/8"*

Is the after end of the liner made watertight in the after boss *Yes*

Is an approved Oil Gland or other appliance fitted at the after end of the liner *Yes*

Is the space charged with a plastic material insoluble in water and non-corrosive *Yes*

Length of Bearing in Stern Bush next to and supporting propeller *3' 8" lignum vitae*

Material *Brass* whether Moveable *Yes* Total Developed Surface *44* sq. feet

Can one be overhauled while the other is at work *Yes*

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How driven *Steam*

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The foregoing is a correct description,

FOR SWAN, HUNTER, & WIGHAM RICHARDSON, LTD.

Manufacturer.

SECRETARY



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Lloyd's Register Foundation

1926
 6. 12. 14. 20. 21. 29. Nov. 1. 3. 10. 12. 17. 18. 22. 23. Dec. 2. 8. 10. 22. 29. Jan. 6. 7. 13. 14. 24. Feb. 2. 9. 17. 24. Mar. 1. 3. 4. 9. 10. 11. 14. 18. 22. 24. 28. 30. 31. Apr. 1. 4. 8. 11. 14. 20. 22. 28. 29. May 4. 5. 10. 11. 17. 18. 20. 21. 24. 27. 30. June 2. 3. 8. 10. 13. 15. 16.

During progress of work in shops - -
 During erection on board vessel - - -

Dates of Survey while building

Total No. of visits 70

14 Cyl tested. 270lb NIP Cyl. 100lb. LP. Cyl. 40lb - Condensers tested 15 lb. hydraulic pressure.
 29. 4. 27
 Dates of Examination of principal parts - Cylinders 24. 3. 27. 22. 3. 27 Slides 4. 3. 27. 8. 4. 27 Covers 8. 4. 27. 21. 4. 27
 Pistons 28. 3. 27. 21. 4. 27 Piston Rods 30. 3. 27. 11. 4. 27. 21. 4. 27 Connecting rods 8. 4. 27. 11. 4. 27. 21. 4. 27
 Crank shaft 22. 3. 27. 24. 2. 27. 24. 4. 27 Thrust shaft 24. 2. 27. 14. 4. 27 Intermediate shafts 28. 3. 27. 14. 4. 27. 24. 4. 27
 Tube shaft 5. 4. 27. 10. 5. 27 Screw shaft 30. 3. 27. 24. 2. 27. 4. 2. 27 Propeller 30. 3. 27. 24. 3. 27. 10. 5. 27. 18. 6. 27
 Stern tube 14. 2. 27. 4. 5. 27 Engine and boiler seatings 10. 5. 27. 17. 5. 27 Engines holding down bolts 17. 5. 27. 20. 5. 27. 20. 6. 27
 Completion of pumping arrangements 13. 6. 27 - 16 June 27 Boilers fixed 10 June 27 Engines tried under steam 10 June. 27. 13. 6. 27
 Main boiler safety valves adjusted 10 June. 27 Thickness of adjusting washers FB. F 9/16. A 7/16 - PB F 3/8 A 3/8 - SB. F 9/16 A 7/16
 Crank shaft material Steel Identification Mark LR. JD. 15/24/26 Thrust shaft material Steel Identification Mark LR. JD. 15/24/26
 Intermediate shafts, material Steel Identification Marks LR. JD. 12648/9 Tube shaft, material L Identification Mark L
 7555. 27 8. 26. 10. 12633/4 LR. JD. 2. 11. 26.
 Screw shaft, material Steel Identification Mark L G. 8. 8/4/27 Steam Pipes, material Steel Test pressure 645 lb. Date of Test 2. 6. 27
 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 carrying and burning oil fuel been complied with Yes
 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 and Boilers built under Special Survey the material and workmanship found good and efficient.

The Engines and Boilers Satisfactorily installed on board the Vessel, tested under working conditions and found satisfactory.

In my opinion this Vessel is now eligible for the notation of + L MC. 6. 27 (INREN) in the Register Book.

It is submitted that
 this vessel is eligible for
 THE RECORD. + LMC 6. 27. FD. CL.
 Fitted for oil fuel 6. 27. FP above 150° F.

L. G. Shewcross.
 Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 5 : 0 :
 Special ... £ 95 : 7 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :

When applied for, 20/6/1927
 When received, 22/6/1927

Committee's Minute

TUES. 28 JUN 1927

Assigned

+ L MC. 6: 27 FD. CL
 Fitted for Oil Fuel 6. 27 FP above 150° F

CERTIFICATE WRITTEN