

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report

19

When handed in at Local Office

12 MAR. 1938

Port of

Received at London Office

MAR 14 1938

No. in Survey held at  
Reg. Book.

Date, First Survey

Aug 16 17

Last Survey

Feb 10 1938

on the *twin screw steamer "ROSALIA"*

(Number of Visits)

Tons  
Gross  
NetBuilt at *Haverton Hill* By whom built *Furness Shipbuilding Co. Ltd.*

Yard No. 248

When built 1938.

Engines made at *Sunderland*By whom made *Richardson & Kentgate*

Engine No. 2690

When made 1938.

Boilers made at *Renfrew*By whom made *Babcock & Wilcox Ltd.*

Boiler No.

When made 1938

Registered Horse Power

Owners *Suracaoische Sch. Mij*Port belonging to *Willemstad*

Nom. Horse Power as per Rule

366

Is Refrigerating Machinery fitted for cargo purposes

No.

Is Electric Light fitted

Yes.

Trade for which Vessel is intended

*Ocean going*

27 1/2%.

## ENGINES, &amp;c.—Description of Engines

Dia. of Cylinders *390 1/4 - 635 1/2 - 1020 1/2*Length of Stroke *400 1/2*No. of Cylinders *6*

Revs. per minute

No. of Cranks *6*

Crank shaft, dia. of journals

as per Rule *200 1/2*as fitted *210 1/2*Crank pin dia. *210 1/2*

Crank webs

Mid. length breadth *400 1/2*Mid. length thickness *140 1/2*Thickness parallel to axis *140 1/2*Thickness around eye-hole *93 1/2*

Intermediate Shafts, diameter

as per Rule *7.494*as fitted *7.717*

Thrust shaft, diameter at collars

as per Rule *8.285*as fitted *8.583*

Tube Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule

as fitted

Is the *tube* shaft fitted with a continuous liner

as per Rule

as fitted

Is the after end of the liner made watertight in the

propeller boss

Bronze Liners, thickness in way of bushes

as per Rule *.551*

as fitted

Thickness between bushes

as per Rule *.591*

as fitted

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 junctions made by fusion through the whole thickness of the liner

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

If two liners are fitted, is the shaft lapped or protected between the liners

Yes.

Propeller, dia. *9'6"*Pitch *variable*No. of Blades *4*Material *Brass*

whether Moveable

No.

Total Developed Surface

sq. feet

Feed Pumps worked from the Main Engines, No. *1 each*Diameter *140 1/2*Stroke *120 1/2*

Can one be overhauled while the other is at work

Yes.

Bilge Pumps worked from the Main Engines, No. *1 each*Diameter *140 1/2*Stroke *120 1/2*

Can one be overhauled while the other is at work

Yes.

Feed Pumps { No. and size *2-6.7 Dia x 4-72* } *2-10 1/2 x 8-22* Duplex.How driven *main engines* *Steam*Ballast Pumps, No. and size *One 8' x 10' x 10'*

Lubricating Oil Pumps, including Spare Pump, No. and size

Are two independent means arranged for circulating water through the

Bilge Pumps;—In Engine and Boiler Room *4-3" Dia*In Pump Room *2 @ 2" For pump room.*In Holds, &c. *Fore peak 3 1/2", For coffer dam 1 @ 4"*Main Water Circulating Pump Direct Bilge Suctions, No. and size *One 10"*

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size *One, 6"*

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

Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight pipes to the bilges

Are all Sea Connections fitted direct on the skin of the ship

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel

What Pipes pass through the bunkers

What pipes pass through the deep tanks

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

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

Is the Shaft Tunnel watertight

Is it fitted with a watertight door

MAIN BOILERS, &c.—(Letter for record *S*) Total Heating Surface of Boilers *6520 sq. ft.*

Is Forced Draft fitted

No. and Description of Boilers *Two, water tube*Working Pressure *180 lbs.*

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

IS A DONKEY BOILER FITTED?

Is the donkey boiler intended to be used for domestic purposes only

PLANS. Are approved plans forwarded herewith for Shafting

(If not state date of approval)

Superheaters

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied

State the principal additional spare gear supplied



Manufacturer.



© 2019

Lloyd's Register  
Foundation

W213-0128



1917 Aug. 16. 20. 21. 27. 30. 31. Sep. 7. 14. 20. 27. Oct. 6. 12. 18. 25. Nov. 2. 8. 15. 22. 29. Dec. 7. 13.  
During progress of work in shops -- 21. 28. 1938 Jan. 11. 17. 24. 31. Feb. 7. 14. 21. 28. Mar. 7. 10.  
Dates of Survey while building During erection on board vessel -- 1938 Mar. 28. 29. 31. Apr. 1. 5. 7. 8. 11. 12. 14. 21.  
Total No. of visits 34 + 11 = 45

18/10/37 15/11/37  
Dates of Examination of principal parts—Cylinders 14/2/38 22/2/38 Slides 24/1/38. Covers 24/1/38.  
Pistons 28/12/37. Piston Rods 11/1/38 Connecting rods 21/2/38. 14/2/38.  
Crank shaft 8/1/38 26/1/38 (W. Hpt.) Thrust shafts 22/2/38. Intermediate shafts 21/2/38 9/3/38  
Tube shaft ✓ Screw shaft 17/1/38. 17/2/38/ 8/3/38. Propeller 17/2/38.  
Stern tube 21/2/38 Engine and boiler seatings 28/3/38. Engines holding down bolts 1/4/38.  
Completion of fitting sea connections 25-2-38  
Completion of pumping arrangements 12/4/38 Boilers fixed 31/3/38. Engines tried under steam 12/4/38.  
Main boiler safety valves adjusted 12/4/38. Thickness of adjusting washers P. 131. S. 131. P. 5 1/4. S. 5 1/6. P. N°34 S. N°35  
Crank shaft material Ingot Steel Identification Mark ST. P. N°2690 26/1/38 Thrust shaft material Ingot Steel Identification Mark 22/2/38.  
Intermediate shafts, material Ingot steel Identification Marks 40. T.W.B. Tube shaft, material ✓ Identification Mark  
Screw shaft, material Ingot steel Identification Mark 90. 91. 93. T.W.B. Steam Pipes, material Steel Test pressure 540 lbs. Date of Test 5-4-38  
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 Oil tanker If so, have the requirements of the Rules been complied with ✓  
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 Yes. If so, state name of vessel S.S. "Rebecca" Sld No. 52285.

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 despatched to Middlesbrough for installation on board the vessel & will then be eligible in my opinion to have notation LMC (with date) in the Register Book.

The Engines & Boilers have been installed at West Hartlepool under Special Survey and upon completion examined under full working conditions and found satisfactory and it is now Recommended that they be classed in the Register Book with notations +LMC 3.38.  
W.T.B. C.L.

4.38

The amount of Entry Fee ... £ 5 : : When applied for, 2 MAR. 1938  
3/5 Special ... £ 31 : 19 :  
Donkey Boiler, etc. ... £ 13 : 15 : When received,  
Travelling Expenses (if any) £ : :  
TUE 3 MAY 1938

J. H. Haser & J. H. Hooker Smith  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

+ Lmb. 4. 38  
Fitt. for oil fuel 4. 38 &c  
W.T.B. C.L.



© 2019

Lloyd's Register Foundation