

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report

When handed in at Local Office

13th March 1929 Port of Cadiz

Received at London Office

8 MAR 1929

No. in Survey held at

Vigo.

Date, First Survey

Jan. 11, 1928 Last Survey 20th Feb. 1929.

Reg. Book.

86420 on the

SINGLE SCR. STEAMER TORRES GARCIA

Number of Visits

Gross 130.

Built at

Vigo

By whom built

Hijos de J. Barreras S.A.

Yard No. 454

Tons

When built

1929.

Engines made at

By whom made

Engine No.

when made

1929.

Boilers made at

By whom made

Boiler No.

when made

1929.

Horse Power

63.

Owners

Portuguese Government

Port belonging to

Lisbon.

Horse Power as per Rule

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

for which Vessel is intended

Coastguard Service.

Description of Engines

Inverted Reciprocating

Revs. per minute 130

No. of Cylinders

10 1/2

Length of Stroke

28"

No. of Cranks

3.

shaft, dia. of journals

as per Rule 138 1/2

as fitted 143 1/2

Crank pin dia.

143 1/2

Crank webs

Mid. length breadth 200 1/2

Mid. length thickness 90 1/2

Thickness parallel to axis

Thickness around eye hole

Intermediate Shafts, diameter

as per Rule 132

as fitted 142

Thrust shaft, diameter at collars

as per Rule 138 1/2

as fitted 140

Shafts, diameter

as per Rule 134 1/2

as fitted 134 1/2

Screw Shaft, diameter

as per Rule 134 1/2

as fitted 134 1/2

Is the screw

shaft fitted with a continuous liner

Solid bronze.

Liners, thickness in way of bushes

as per Rule 134 1/2

as fitted 134 1/2

Thickness between bushes

as per Rule 134 1/2

as fitted 134 1/2

Is the after end of the liner made watertight in the

er box

Yes.

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

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Yes.

Is an approved Oil Gland or other appliance fitted at the after

end of the tube shaft

Yes.

Is an approved Oil Gland or other appliance fitted at the after

end of the tube shaft

Pitch

28"

No. of Blades

4

Material

Cast iron

Whether Movable

No.

Total Developed Surface

Pumps worked from the Main Engines, No.

One

Diameter

60"

Stroke

10 1/2"

Can one be overhauled while the other is at work

Yes.

Can one be overhauled while the other is at work

Pumps worked from the Main Engines, No.

One

Diameter

60"

Stroke

10 1/2"

Can one be overhauled while the other is at work

Yes.

Can one be overhauled while the other is at work

No. and size

one Worthington 120 x 1/2 x 120"

How driven

Steam

Pumps connected to the

Main Bilge Line

No. and size

one Worthington 120 x 1/2 x 120"

How driven

Pumps, No. and size

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Independent means arranged for circulating water through the

Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary

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1928 Jan. 11. Feb. 24, 25. Apr. 9, 10. May 25, 26. July 10, 11, 12. Sept. 22. Nov. 16.

During progress of work in shops - -

1929 Jan. 18, 19. Feb. 18, 19, 20.

During erection on board vessel - - -

Total No. of visits 24.

Dates of Examination of principal parts - Cylinders 21.9.28. Slides 21.9.28. Covers 21.9.28.

Pistons 21.9.28. Piston Rods 21.9.28. Connecting rods 22.9.28.

Crank shaft 27.3.28. See Dunseldorf report. Thrust shaft 26.5.28. Intermediate shaft 19.2.29.

Tube shaft ✓ Screw shaft 4.10.27. See Glasgow report. Propeller 20.2.29.

Stern tube 22.9.28. Engine and boiler seatings 26.5.28. Engines holding down bolts 20.2.29.

Completion of pumping arrangements 20.2.29. Boilers fixed 18.1.29. Engines tried under steam 19.2.29.

Main boiler safety valves adjusted 19.2.29. Thickness of adjusting washers $P 15 \frac{3}{4} \text{ in}$ $S 16 \frac{3}{4} \text{ in}$.

Crank shaft material Steel. Identification Mark No 4053 J.L. Thrust shaft material Steel. Identification Mark No 10.T.M. 25.5.28.

Intermediate shafts material Iron. Identification Marks No 10.T.M. 19.2.29. Tube shaft material ✓ Identification Mark ✓

Screw shaft material bronze. Identification Mark No 8352.4.0.17. Steam Pipes material Copper. Test pressure 400 lb. Date of Test 18.2.29.

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.) This machinery has been examined during construction, the materials and workmanship are good and after being securely fitted in the vessel, and according to the Rules it was examined under working conditions and found satisfactory. In my opinion it is eligible to be classed with the record of 1st M.C. 2-29.

A 1.5 H.P. steam driven dynamo 100/10 Volts. 15 Amps. at 1/50 revs. Compound wound has been fitted in the engine room with accommodation and navigation lights. The installation was tested under working conditions and found satisfactory. In my opinion the record of "Electric Light" should be made.

PESET 45.

The amount of Entry Fee ... £ 100.00 : When applied for,

Special Electric Light ... £ 930.00 : 20.2.1929

Donkey Boiler Fee ... £ 150.00 : When received,

Travelling Expenses (if any) £ 1276.00 : 20.2.1929

See comp

Committee's Minute

Assigned

thurs 2.29

Thomas Miller

Engineer Surveyor to Lloyd's Register of Shipping.



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