

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 24 APR 1948

19th April 48 When handed in at Local Office 19th April 48 Port of Barcelona

Engine held at Valencia Date, First Survey 8th March 1947 Last Survey 20th May 1947

Single Screw Steamer "R. DE EL FERROL" (Number of Visits 19) Gross 2241.98 Tons Net 1308.25

By whom built Ostseewerft Sch. & Masch. Yard No. - When built 1921

By whom made A. Borsing G.m.b.H. Engine No. - when made 1921

By whom made A. Borsing G.m.b.H. Boiler No. 25093 & 25094 when made 1921

Owners Siderurgica Asturiana S.A. Port belonging to Cadiz

Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

**DESCRIPTION OF ENGINES.** Triple Expansion Steam Reciprocating Engine

Length of Stroke 1000 mm Revs. per minute 75 No. of Cylinders 3 No. of Cranks 3

as per rule 288 mm Dia. of Crank pin 288 mm Crank webs Mid. length breadth 444 mm Thickness parallel to axis 185 mm

as fitted 288 mm Mid. length thickness 185 mm shrunk Thickness around eye-hole 134 mm

as per rule 288 mm accepted 271 mm accepted 316 mm

as fitted 288 mm Diameter of Tunnel shaft as per rule 271 mm Diameter of Screw shaft as fitted 316 mm

Is the screw shaft fitted with a continuous liner the whole length of the stern tube no Is the after end of the liner made watertight in the propeller boss -

If the liner is in more than one length are the joints burned - If the liner does not fit tightly at the part -

Is the bearing 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 - Is an approved appliance fitted at the after end of the shaft to permit of its being effectively lubricated yes Length of Stern Bush 1390 mm Diameter of Propeller 4500 mm

Pitch of Propeller 440 mm No. of Blades 4 State whether Moveable no Total Surface - square feet.

No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 77 mm Stroke 500 mm Can one be overhauled while the other is at work yes

No. of Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 80 mm Stroke 500 mm Can one be overhauled while the other is at work yes

Total number and size of power driven Feed and Bilge Auxiliary Pumps 1 of 225 x 151 x 162; 1 of 115 x 90 x 122 mm; 1 injector

No. and size of Pumps connected to the Main Bilge Line 1 of 191 x 172 x 285; 1 of 225 x 151 x 162 mm

No. and size of Ballast Pumps 1 of 191 x 172 x 285 No. and size of Lubricating Oil Pumps, including Spare Pump none

Is there a pump arranged for circulating water through the Oil Cooler none No. and size of suction connected to both Main Bilge Pumps and Auxiliary in Engine and Boiler Room 2 of 75 mm - 2 of 65 mm and in Holds, etc. Space above F.P. hand pump to be 1 of 75; Nos. 1 & 2 holds 2 of 75 (p. & s.); No 3 hold fore end 2 of 75 (p. & s.); 1 of 75; 1 of 70; after peak 1 of 100 mm.

No. and size of Main Circulating Pump Bilge Suctions 1 of 102 mm No. and size of Donkey Pump Direct Suctions 2 of 65 mm

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 man-ways, 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 Are they Valves or Cocks both

Are they sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Discharge Pipes above or below the deep water line above

Are they 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 sanitary discharge How are they protected by casings

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 yes worked from deck

**MAIN BOILERS, &c.** (Letter for record) Total Heating Surface of Boilers 380 m2

Is Draft fitted no No. and Description of Boilers 2 Scotch type Working Pressure 14 kgs

IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes

IS A DONKEY BOILER FITTED? no If so, is a report now forwarded? -

PLANS. Are approved plans forwarded herewith for Shafting 23-6-47 Main Boilers 23-6-47 Auxiliary Boilers none Donkey Boilers none

(If not state date of approval)

General Pumping Arrangements 22-5-47 Oil fuel Burning Piping Arrangements none

SPARE GEAR. State the articles supplied: - As per enclosed list.

The foregoing is a correct description

Manufacturer.



During progress of work in shops - -  
During erection on board vessel - -  
During Special Survey. 1947.- March 8, 27, 29; April 10, 18, 19, 21; May 1, 2, 3, 4, 10, 11, 20

Total No. of visits - 19

Dates of Examination of principal parts - Cylinders

Slides

Covers

Pistons

Rods

Connecting rods

Crank shaft

Thrust shaft

Tunnel shafts

Screw shaft

Propeller

Stern tube

Engine and boiler seatings

Engines holding down

Completion of pumping arrangements

Boilers fixed

Engines tried under

Completion of fitting sea connections

Stern tube

Screw shaft and propeller

Main boiler safety valves adjusted 10-5-47

Thickness of adjusting washers P. Boiler - PV 19. SV 23.

Material of Crank shaft S.M. steel

Identification Mark on Do.

Material of Thrust shaft S.M. steel

Identification Mark on Do.

Material of Tunnel shafts S.M. steel

Identification Marks on Do.

Material of Screw shafts S.M. steel

Identification Marks on Do.

Material of Steam Pipes Steel

Test pressure 42 kgs

Date of Test

Is an installation fitted for burning oil fuel no

Is the flash point of the oil to be used over 1

Have the requirements of the Rules for carrying and burning oil fuel been complied with -

Is this machinery duplicate of a previous case

If so, state name of vessel -

General Remarks (State quality of workmanship, opinions as to class, &c. This machinery has

under Special Survey, but it complies with the requirements of the Rules

built under Special Survey and approved plans. Please see Secretary's letter

Material and workmanship are good

The main and all auxiliary machinery have been examined under

condition and found satisfactory, and in my opinion, this machinery is entitled to

in this Society with the notation of L.M.C. 5,47 and T.S. (OG) seen 3,47

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

Special ... £ : : 19

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

Travelling Expenses (if any) £ : : 19

Committee's Minute

Assigned

See minute on machinery

FRI. 4 JUN 1940



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