

Rpt. 9

23 JAN 1956

Date of writing report 11.1.56

Received London

Port Bilbao

No. 11862

Survey held at Bilbao

No. of visits 45

First date 10.3.55

Last date 16.12.55

REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 19244 Name ^{S.S.} ~~MS~~ "MARQUES DE URQUIJO" Gross tons 2567 Date of build 1, 1894

Owners Altos Hornos de Vizcaya S.A. Managers - Port of Registry Bilbao

Engines made Sld. By J. Dickinson Type Steam Reciprocating

No. of Main Engines 1 No. of Screws 1

Records of Survey & Special Notations as per Register Book

No. of Main Boilers 2 SB W.P. 160 lbs.

No. of ~~Donkey~~ Donkey Boilers 1 W.P. 100 lbs.

Surveyed Afloat or in Dry Dock Both

Nature of Survey Reclassing.

Was Damage Report issued? - Int. Cert.? Yes

Last Report (For Head Office only)

Hull	Machinery
+ Class WITHDRAWN at Owners' request 6, 24.	

The condition of any of the following items is to be described as "good" only when the part has been examined, found or placed in good condition, and is considered to be acceptable until the due date of the next Periodical Examination. Where it is considered that re-examination or repairs should be effected before the due date of the next Periodical Examination a distinguishing mark thus † should be inserted against the item and the circumstances and action recommended described fully under "defects and repairs". At part or complete Special Surveys those items which are not applicable to the ship should be cancelled with a black line; this need not be done when the machinery is on a continuous survey basis. When any part has been subjected to pressure test this should be stated. Engine parts when referred to by numbers should be counted from forward.

Now If so, is the Report sent now, or when will it be sent?

DOCKING Propellers Good Wear Down of Stern Bushes Rewooded. Oil Glands Sea Connections Good

Fastenings Good Has Screwshaft/Tubeshaft been drawn? Yes Date of Examination 9-12-55 Has Shaft been changed? No

Has Shaft now fitted been previously used? - Has Shaft now examined/fitting a continuous liner? Yes Approved oil glands?

MAIN ENGINES (Recip. Steam ~~as-LG~~) PORT STARBOARD

1 Cyls., Covers, Pistons & Rods Good

2 Valves & Gears Good

3 Connecting Rods, Top Ends & Guides Side Good Centre Good

4 Crankpins & Bearings Side Good Centre Good

5 Journals & Bearings Good

MAIN ENGINE DRIVEN AIR COMPRESSORS

6 Cyls., Covers, Pistons & Rods

7 Connecting Rods & Top Ends

8 Crankpins & Bearings

9 Journals & Bearings

10 Coolers & Safety Devices

MAIN ENGINE DRIVEN SCAVENGE PUMPS

11 Cyls., Covers, Pistons & Rods

12 Connecting Rods & Top Ends

13 Crankpins & Bearings

14 Journals & Bearings

15 Levers

16 SCAVENGE BLOWERS

17 SUPERCHARGERS

MAIN TURBINES

18 Casings, Rotors, Blading, Bearings & Thrusts

19 EXHAUST STEAM TURBINES (WITH REAR ENGINES)

20 STEAM COMPRESSORS

21 CLUTCHES & HYDRAULIC COUPLINGS

22 REDUCTION GEARING

23 THRUST BLOCKS, SHAFTS & BEARINGS Good

24 INTERMEDIATE SHAFTS & BEARINGS Good

25 HOLDING DOWN BOLTS & CHOCKS Good

26 CONDENSERS (MAIN & AUX) Good

27 STEAM RE-HEATERS

28 DE-SUPERHEATERS

29 STOP & MANOEUVRING VALVES Good

30 MAIN ENGINE DRIVEN PUMPS Good

31 CRANKCASE DOORS & EXPLOSION RELIEF DEVICES

Have Main Engines been tested working and manoeuvring? Yes

OPINION OF MACHINERY AND RECOMMENDATIONS The machinery of this vessel, so far as now seen, is in good condition and eligible in our opinion to be reclassified with the record of +LMC 12,55 and TS(CI) seen 12,55.

FRIDAY 10 FEB 1956

Date of Committee +LMC 12,55

Decision 31265 50312,55

80m.5,54. T.

CERTIFICATE WRITTEN

For E. P. ... Engineer Surveyor to Lloyd's Register of Shipping



Lloyd's Register Foundation

011071-011078-0120/3

If certificate is required state where to be sent.

32 Essential Independent Pumps (Identify by position) Port ford. general service; bilge and ballast pump, Good. Port aft. ballast pump, Good. Port inboard boilers auxiliary feed pump, Good.

33 Bilge, Ballast & Oil Fuel Suction Lines, Fittings & Controls Good

34 Have the remaining Piping Arrangements & Fittings in the machinery space been examined as considered necessary? Good

35 Fresh Water Coolers 36 Lub. Oil Coolers 37 Motors (state service)

38 Independent Air Compressors, Coolers & Safety Devices

39 Air Receivers & Safety Devices - Main 40 Auxiliary

41 Oil Fuel Tanks (Not forming part of hull structure)

42 Evaporators 43 Have Evaporator Safety Valves been tested under steam?

44 Steering Machinery Good 45 Windlass Good 46 Fire Extinguishing Arrangements Good

AUXILIARY ENGINES (Identify by position) Stbd. Forward Steam Generator set, Good; Stbd. Aft. Steam Generator set, Good.

PROPULSION		ELECTRICAL EQUIPMENT	
PORT	STARBOARD	PORT	AUXILIARY EQUIPMENT
a Generators		1 Generators & Governors	Good
b Exciters		2 Motors	
c Air Coolers		3 Switchboards & Fittings	Good
d Motors		4 Circuit Breakers	
e Air Coolers		5 Cables	Good
f Control Gear, Cables, etc.		6 Insulation Resistance	Good
g Insulation Resistance		7 Steering Gears, Generators and Motors	
h Insulating Oil Test		8 Navigation Light Indicators	Good
i Overspeed Governors			
j Magnetic Couplings			
k Air Gap			

BOILERS OPENED UP & EXAMINED (Identify by position and state latest date of internal examination of each boiler)

MAIN Port Boiler, 15.11.55 Good
Stbd. " 5.11.55 Good

AUXILIARY, DONKEY or PRESS Boiler, 2.11.55 Good.

Superheaters

Safety Valves Good Good

Mountings, Doors & Fastenings Good Good

Safety Valves Adjusted to { Sat. 160 lbs. Good 100 lbs. Good
Spt. Good Good

Boiler Securing Arrangements Good Good

Main Economisers Exhaust Gas Heated Economisers

Steam Heated Steam Generators Steam Generator Safety Valves Adjusted to

Were Oil Burning System & Remote Controls examined working in accordance with Rules? Forced Circulating Pumps

Have Saturated Steam Pipes in cylindrical boiler smoke boxes been examined as required by Rules? Funnel Good

EXAMINATION & TESTING OF STEAM PIPES (State material)

Main Copper 10,55 Good. Auxiliary (over 3 in. bore) Copper 10,55 Good.

Were Copper Pipes annealed? Yes Have Saturated Pipes in cylindrical boiler smoke boxes been tested?

PARTICULARS OF DEFECTS & REPAIRS, ETC. (Damage repairs should be detailed separate from wear and tear repairs; state what action has been taken regarding items which are subjects of class)

MAIN ENGINE:-

H.P., M.P. & L.P. cylinders rebored.
H.P. piston valve liner rebored.
H.P., M.P. & L.P. slide valves and faces machined.
H.P., M.P. & L.P. pistons renewed.
H.P. piston valve renewed.
H.P., M.P. & L.P. piston rods renewed.

Identification marks are:-

H.P.	M.P.	L.P.
Lloyd's Bbo. No. 1478	Lloyd's Bbo. No. 1479	Lloyd's Bbo. No. 1480
JB. 31.3.55	JB. 31.3.55	JB. 31.3.55
JB. 23.9.55	JB. 23.9.55	JB. 23.9.55

H.P., M.P. & L.P. guides machined.
H.P., M.P. & L.P. guide-shoes remetalled.
L.P. crosshead pin renewed.

(Continued)

Survey fees IMC (reclassified) 10846 Ptas.
Repairs 6000 "
Elect. equipmnt. 1683 "

Damage fee CA. 715
Expenses... 320

Date when A/c rendered 11.1.56

S/S. "MARQUES DE URQUIJO"

REPAIRS(Continued):-

H.P., M.P. & L.P. connecting rod top end brasses renewed.
H.P., M.P. & L.P. connecting rod bottom end bearings remetalled.
All eccentric straps remetalled. All main bearings remetalled.
Crankshaft machined and M.P. web renewed at this time. Identification

marks are:-
Lloyd's Bbo.
No. 1196
11.6.55 JMR
JB. 27.7.55

Crankshaft rebbeded and re-aligned.
Holding down bolts end chocks renewed.
Thrust shaft bearings remetalled.
" " renewed and identification marks are:-
" " chocks and holding down bolts renewed.
All intermediate shafts bearings remetalled.
" " " " chocks and bolts renewed.
Main engine driven, feed and bilge pumps bodies and plungers renewed.
Air pump rebored.
Pump crosshead renewed.
All pump-link bearings renewed.

Lloyd's Bbo.
No. 1197
20.6.55 JMR
27.7.55 JB

MAIN CONDENSER:-

All tubes renewed and tested.

AUXILIARY MACHINERY:-

Windlass.-

Crankshaft bearings renewed.
Slide valves renewed.
Piston rods renewed.

Steam Steering Engine.-

Bed plate renewed.
Crankshaft bearings, distribution valves, spur wheel and worm renewed.

Ballast Pump.-

Steam and water side cylinders rebored and pistons renewed.

Piping Arrangement.-

All piping renewed and tested under working condition.

Electric Equipment.-

Switchboard renewed.
All electric installation renewed according to the Rule requirements.

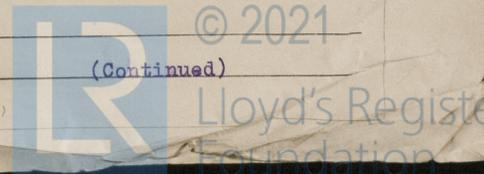
MAIN BOILERS:-

Port Boiler.-

Lower portion of the back end plate cropped and part renewed.
Port Furnace - All plain & stay tubes renewed.
30 screw stays renewed.
Centre Furnace- 60 plain tubes renewed.
6 stay " "
34 screw stays renewed.

(Continued)

*Reclassification survey held
It is submitted that in light of
the low percentage of defects noted
with
RECORD TIME 1755
SPS 10/11
Jan 11.1.56
THIS SPACE BLANK
The survey was carried out by
the undersigned on 11.1.56
and the results are as shown
on the accompanying pages.*



S/S. "MARQUES DE URQUIJO"

Centre Furnace (Contd.)- Wasted portion of furnace cropped and part renewed by welded plate.

Lower portion of the comb. chamber back plate renewed and butt welded.

Stbd. Furnace - 50 plain tubes renewed.

10 stay " "

30 screw stays "

Chocks and seatings renewed, seatings renewed.

Safety valves, springs and bushes renewed.

Starboard Boiler.-

Lower portion of the back end plate cropped and part renewed.

Port Furnace - All plain and stay tubes renewed.

A number of screw stays renewed.

Centre Furnace - All plain and stay tubes renewed.

A number of screw stays renewed.

Wasted portion of furnace cropped and part renewed by welded plate.

Lower portion of the comb. chamber back plate renewed and butt welded.

Stbd. Furnace - 60 plain tubes renewed.

12 stay " "

35 screw stays "

Chocks and seatings renewed.

Safety valves, springs and bushes renewed.

Donkey Boiler.-

All plain and stay tubes renewed.

Doors renewed.

Safety valve body, valves, springs and bushes renewed.

Chocks, seatings and securing stays renewed.

Other minor repairs also effected.

On completion of the repairs, both main and donkey boilers, hydraulically tested and found same satisfactory.

ALTERATIONS:-

A reconditioned steam driven electric generator, has now been fitted on board and evidence of original markings were seen, but same were not decypherable. The dynamo has been rewound in its entirety, megger tested and found satisfactory. This set has been tested on board at full and over-loaded conditions and found same in good order. Its characteristics are:-

Amps. = 75; Volts = 125

RPM = 350; K.W. = 7.5

5/10110



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