

REPORT of SURVEY for REPAIRS, &c.

Date of writing Report 20th March 31 When handed in at Local Office 20th March 31 Port of BILBAO
 No. in Reg. Book 66568 Survey held at BILBAO Date, First Survey 24th Sept 1929 Last Survey 16th March 1931
 on the Wood, Iron & Steel Sc. Sr. "CABO CULLERA" (No. of Visits 50)

TONNAGE:— Built at Middlesbrough By whom R. Dixon and Co. When 1882 — 12 YEAR MONTH.
 GROSS 2246 Owners Ybarra y Cia. Owners' Address Seville
 UNDER DEK. 2228 Managers Bergé y Cia. Port belonging to BILBAO
 NET 1506

Surveyed Afloat or in Dry Dock? Drydock Name of Dock Nervion Destined Voyage ---
 WB=CellDBorDBa feet; uE&B feet; f feet } Particulars of Classification (which must be inserted
 total capacity tons. FPT tons; APT tons; MT feet tons. } precisely as in Register Book & Supplements).

N.B.—All alterations in the existing records should be underlined.
 If the Vessel has Water Ballast Tanks, state whether the manhole covers have been removed, and the insides of the tanks examined. Also state the amount of deterioration (if any) found in the thicknesses of the floors, framing, girders, and of the inner bottom plating, especially in the boiler space.

Last Report, No. 94298 Port Lon.

Periodical Surveys, when held, must be reported in detail and serialim in the terms of the Rules. State clearly the cause of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent repairs. Repairs on account of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and besides being detailed in the body of the report, should be summarised in the form shown below. Whenever the replacement of Anchors or Chains is reported, the particulars should be clearly stated in the space provided on the back of this form. State also the dates and initials of any letters respecting this case.

CHARACTER. * for Special Survey. Date of last Survey and of Periodical Surveys.	Year Assigned now expired.	Machinery and Boiler Surveys (including date of N.B., if any)
+100A1 awning dk. with freeboard 11,27		+L.M.C. 11,24 BS. 11-27. TS, 11-27.
s.s Bbo.3rd.No.3 4,20		
s.s.Bbo.No.1-24		

In damage cases where the Surveyor has not made a special damage report he is required to state whether he offered his services for this purpose and to whom and why they were declined

Society's Freeboard (if assigned) as painted on Ship and now verified } 9 ft. 8 1/2 ins.

Was a damage report made by anyone else? If so, by whom?

REPAIRS, OR EXAMINATION AS PER RULE, FOR A SPECIAL SURVEY No.3. & S.R.L.(Repairs etc.)

NOW DONE:- Vessel placed in drydock, the bottom, keel and rudder cleaned, examined and coated. Rudder lifted, bushed and refitted. The holds, peaks, tween decks, coal bunkers and machinery space cleared. All close and spar ceiling removed from tank top and vessel's sides in holds and bunkers, limber boards removed throughout. All casings of soil, scupper, air and sounding pipes removed, steelwork generally exposed including plating under sidelights, all oxidation removed from the surface of the inside of shell plating, frames stringers, hooks, floorplates, keelsons, beams, bulkheads etc. Steelwork examined and with the exception of parts repaired as stated below found in good condition and coated, shell plating drilled on each side of vessel, thickness gauged and are as stated on the attached list. All the double bottom and peak tanks tested by water pressure and subsequently examined internally, floors scaled and coated where necessary, all broken and loose cement made good, tank top and limbers tarred and cemented and close and spar ceiling relaid and refitted. Decks examined and hammer tested, chain cables ranged and examined, chain locker examined and cables replaced, anchors, masts, spars, rigging and general equipment examined. (Riggers report on masts, spars and rigging attached hereto.) Canvas coats renewed and fastenings examined in position at the hatchways and made good where necessary. Ventilator

SUMMARY OF DAMAGE REPAIRS:—	Shell Plates.	Frames.	E. Frames.	Floors.	Beams.	Str. Plates.	Dk. Plates.	Other Items:—
Renewed								
Removed and Faired or Repaired								
Faired or Repaired in place								

PRESENT CONDITION OF THE		State if Tanks have been examined inside		Dblng. Plates under Sounding Pipes		Copper, or Y.M. of Wood Vessels	
Decks	Good.	Yes	Yes	Good	Good	(State if on Feet).	When put on, Month Year
Caulking of Decks	"	Yes	Yes	"	"	Boats	Good
Coamings	"	Good	Good	"	"	Masts, Yards, &c.	Good
Beams & Fastenings	"	"	"	"	"	Condition, how ascertained	examd aloft
Outside Plating	"	Cement	"	"	"	(State if wedges removed)	Yes
Breasthooks	"	(State which.)	"	"	"	Sails	"s"
Transoms	"	Rudder	"	"	"	Equipment letter	"s"
Frames	"	Steering gear and its connections	"	"	"	Anchors, No. of	3B, 1S & 1K.
Reverse Frames	"	Windlass	"	"	"	Cables (State if now ranged)	Yes
Longitudinals	"	Have Pumps now been examined and found efficient?	Yes	"	"	" length 240 size 1 13-16	
Transverses	"	Have Sluice Valves now been examined and found efficient?	None	"	"	" Rule length 240 size 1 13/16	
Floors	"	Have Watertight Doors now been examined and found efficient?	Yes	"	"	Hawser & Warps	Sufficient
Keelsons	"	Have Ventilators and their Coamings been examined and found efficient?	Yes	"	"	Standing and Running Rigging	Good
Stringers	"			"	"		
Inner Bottom Plating	"			"	"		

General Observations, Opinion as to Class, Recommendation, &c.:-

State clearly whether any and, if so, what alteration is suggested to be made in the existing classification and notification of the vessel in the Register Book consequent upon this survey, thus, for example:—"to remain as now classed in the Register Book without fresh record of Survey," "to remain as classed and to have record of survey, 1,24," or "to remain as classed and to have record of survey, 1,24, and the notations of ss No. 1-24 and ptND24, &c."

This vessel is now in good and efficient condition, and eligible in my opinion to remain as classed with fresh record of survey 3-31, subject to three lengths of chain cable being renewed, and with the notation of S.S. Bbo. No.3-31, in the Register Book, when the above lengths of chain cable are renewed.

Survey Fee (per Section 20)	£ 2000	Fees applied for	27/3/1931
Special Damage or Repair Fee (if any) (per Sec. 20)	Freeboard 50	Received by me	27/3/1931
Travelling Expenses (if chargeable)	£ 88		
Second Surveyor's Fee (if any)	£		

Committee's Minute / FRI. 17 APR 1931

Character Assigned 100A1 Awning dk. w/fbd. S.S.4 No.3-31 Subject + L.M.C. 3,31 + NB 98 refitted 3,31
 W469-0281

If so, to the Report and now, or when left to be applied

Is Certificate required? If so, to be sent to



coamings and covers examined, the steering engine and its connections, steering rods chains, bibcks, rudder quadrant, tillers, steering gear, windlass, hand pumps, water-tight doors and air and sounding pipes examined and found or now placed in good condition. Doubling plates found or now fitted under all soundpipes. Freeboard verified

Repairs:- Wear and Tear
Shell plating:- A few defective rivets renewed.
 Bilge keels p. & s. partly renewed.
Rudder:- All rudder plating renewed, 3 pintles renewed, gudgeons rebushed, and lignum vitae of deck stuffing box renewed.
Holds No. 1 & 2 (Portside). 1 side stringer plate, forward, renewed, 13 tankside brackets renewed.
No. 2 tank top. One plate renewed, and one plate cropped and partly renewed.
 Donkey boiler recess coaming plate renewed and one plate to boiler room bulkhead renewed.
 About 300 rust drawn rivets in beam knees renewed.
Hold No. 1 & 2 (Starboard). One side stringer plate forward, renewed, 3 tankside brackets renewed.
 About 300 rust drawn rivets in beam knees renewed.
Hold No. 3 After Hold (Portside). Engine Room Bulkhead two coaming plates renewed. Thrust recess one coaming plate renewed. Shaft tunnel 6 plates renewed. 11 stiffeners reinforced. Two pillars removed, faired and replaced. Several drawn rust rivets in beam knees renewed.
Hold No. 3 After Hold (Starboard). Two reverse frames partly renewed. One pillar renewed. Several rust drawn rivets in beam knees renewed. All rust drawn and broken rivets renewed. Pocket Bunker in Stokehold (Starboard). 8 plates renewed. 2 vertical stiffeners renewed.
E. & B. Space (Portside). 2 frames partly renewed. 11 reverse frames partly renewed.
E. & B. Space (Starboard). 1 web frame partly renewed. 5 reverse frames partly renewed. 15 plates to E. & B. Casings renewed.
Double Bottom Tanks. Tank No. 3. 4 floors reinforced with vertical angles.
Engine Room Tank. 1 floorplate, p & s renewed.
Boiler Room Tank. (Portside). 5 floors renewed, and five floors cropped and part renewed. 11 intercostals renewed, 20 tank top plates renewed. 1 Main Deck plate starboard of No. 3 hatch renewed.
Decks. Wood awning deck completely renewed for about half length amidships.
Wood Decks. Wood hatch covers renewed as recommended, web plates reinforced and Fore and Afters renewed as recommended.
Hatches and Hatchways. Fore topmast stay, and Fore stay renewed and several minor fittings renewed.
Masts, Spars & Rigging.

When Anchors or Cables are supplied, the particulars are to be reported in the following form:-

ANCHORS.

Number of Certificate.	Anchors.*	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY RULE.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons	Cwts.	qrs.	lbs.	Cwts.	qrs.			
	1st Bower ...															
	2nd "															
	3rd "															
	Collective Weight.															
	Stream															
	Kedge.....															

* When a bower anchor is supplied it must be clearly stated whether it is a 1st, 2nd, or 3rd bower.

CHAIN CABLES.

Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.				Length and size per Rule.		Description.	Makers of Cables.	When and where tested and Superintendent.	
	Length.	Diam.	Statutory.	Breaking.	Supplied.		Per Rule.		Length.	Diam.				
					Fathoms.	Ins.	Tons.	Tons.						Cwts. qrs. lbs.
Iron Stream Chain or Steel Wire...														

Thicknesses of plating ascertained by drilling.

STRAKE	Fore Peak		2Sp. Aft.		2Sp. Ford.		Boiler space		2Sp. Ford. of A, P. Bhd.	
	P	S	P	S	P	S	P	S	P	S
Awning Dk. Sheerstrake.	6.5	6.0	7.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5
1st Strake below "	6.5	6.5	6.5	6.5	7	6.5	6.5	6.5	6.5	6.5
Main Dk. Sheerstrake	13	13.5	14	14	14.5	15	13	14	14	14.5
1st Strake below "	8	8.5	8	9	10	10	8.5	10	7	8
2nd "	8	10	9	10	11.5	11.5	11	11	7	8
3rd Strake "	8	8	8	8	10	8	9	9	8	7
4th "	9	9.5	9	9	10	9.5	10	10	8	8
5th "	9	9	7.7	8	9	9.5	10	10	6.5	6.5
6th "			6.5	7					8	8
7th "									8	8
8th "									8	8

The thicknesses are 1/16ths of an inch.

N.B.—If this Report is copied by Copying Press, special care must be taken that the copying paper is not so much damped as to spread the ink, or to cause it to show through to the other side.

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