

STEEL STEAMER or MOTORSHIP.

Received at London Office JAN 15 1938

State if Report has been sent on the Freeboard of the Vessel *yes!*State if Report is sent on the Machinery of the Vessel *yes!*

Date of completion of report

20th December 1937

Port of

Copenhagen

No.

10433

Survey held at

Nakskov

Date First Survey

12th April 1937

Last Survey

17th December

1937

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw)

Single Screw Motor Ship "COPIAPO"

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings)

Complete Superstructure without Tonnage Opening

State Type of Erections Poop & T/cle

TONNAGE under Tonnage Deck

5688.71

CLASS

100. A. I.

State if with freeboard as condition of Class

yes!

Built at

Nakskov

Do. of space or spaces between Tonnage Dk. and Upper Dk.

1747.43

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

L

410.0

Launched 2nd Oct. 1937 Yard No. 82.

Breadth (greatest moulded)

B

58.0

Builders 1/3 Nakskov Skibsværft

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D

33.75

Owners Compania Sud-Americana de Vapores

Total

5436.14

Gross Tonnage

7216.41

Register Tonnage

4433.65

1st Longitudinal Number (L x D) = 1287 Metric

Managers

(Where necessary to be entered in Reg. Book.)

2nd Numeral L x (B + D) = 3501

Residence

Valparaiso, Chile

REGISTERED DIMENSIONS.

FEET.

Length

414.3

Framing Depth "d" at middle of length. See Sec. 3 (1d)

Proportions—Depth to Length—Uppermost continuous deck to top of keel

12.2

Port of Registry

Valparaiso

Breadth

58.3

Not Surveyed while building, afloat, or in dry dock?

Depth

21.7

Draught Moulded 6988 1/2

Yes!

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	760	✓	Bracket Floors, Frame	230 90 11	✓
" " from 1/2 length amidships to Collision bulkhead	610	✓	" " Reversed Frame	200 75 11 1/2	✓
" " in peaks	610	✓	" " Vertical Struts	200 75 11 1/2	✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships	1070 * 13	✓
Frame Amidships, Angle, E or C	200 90 12 1/2	✓	" " top Angles	double 90 90 12	✓
" " Extends up to	3 rd deck	✓	" " bottom Angles	double 100 100 13	✓
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness	Out - 9	✓
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness	970 aft 930 fwd 13	840 1/2 app. ✓
Depth of Framing Girder	Out alt. frame	✓	" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	90 90 13	✓
Frames in Uppermost Continuous 'tween Decks, Angle, E or C	180 90 9 1/2	✓	" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	150 150 12 1/2	✓
" " Second 'tween Decks, Angle, E or C	180 90 9 1/2	✓	" " Gussets, spacing and scantling abaft 1/2 len. from stem	90 90 13	✓
" " Third " " " "	✓		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	160 160 14	✓
" " from 1/2 len. for'd. to 15% len. from Stem	200 90 12 1/2	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	1700 * 10	✓
" " in Peaks, Angle or C	250 90 12	✓	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	180 90 9 1/2	✓	Breadth and thickness of Middle Line Strake	1555 aft 1325 fwd 12 1/2	✓
State if Frame Joggled	yes.	✓	Thickness of remainder in Holds	10 1/2	✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	yes.	Frames fitted	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	yes.	✓
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	yes.	Both plating increased to 19 1/2 from 26 to Coll. bld.	BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, E or C	200 75 11 1/2	✓
Floors, Depth and thickness at mid-line in Holds	✓		" " in way of Bridge, Angle, C or C	✓	
Height of Brackets at side above base line at toe of frame	✓		Spacing	ex. frame	✓
Middle Line Keelson, on Floors, Angles, C or C	✓		Second Deck, amidships, Angle, E or C	230 90 11	✓
" " Through Plate or Intercostal Plate	✓		Spacing	ex. frame	✓
" " Foundation Plate on Floors	✓		Third Deck, amidships, Angle, E or C	230 90 13	✓
" " Flat Plate Keel Angles	✓		Spacing	ex. frame	✓
Side Keelsons, No. each side	✓		Fourth Deck, amidships, Angle, C or C	✓	
" " thickness of Intercostal Plate	✓		Spacing	180 75 9 1/2	✓
" " Angles	✓		Poop Deck, Angle, E or C	9. as app.	✓
DOUBLE BOTTOM.			Spacing	ex. frame	✓
Solid Floors, thickness and spacing	10 ex. 3 rd frame (fr. 85 - 121) at ex. fr. outside.	✓	Bridge Deck, Angle, E or C	200 75 11	✓
" " Are Frame and Reversed Frame joggled?	yes.	✓	Spacing	ex. frame	✓
Bracket Floors, breadth and thickness at middle line	1000 * 10	✓	Forecastle Deck, Angle, E or C	180 75 11	✓
" " breadth and thickness at margin plate	1675 * 10	✓	Spacing	ex. frame	✓

PILLARS AND DECKS.

PILLARS, No. of Rows	Lengths in SHIP.	Any Departure from Approved Plans to be Noted.	Thickness in SHIP.	Any Departure from Approved Plans to be Noted.
Upper in 'tween Decks, Size and Spacing	Two. 175x10 to 105x10 round tub. wid. 3/4"	✓	✓	✓
Lower " " " "	280x13 to 330x14 round tub. wid. 3/4"	✓	✓	✓
" " " " "	330x14 to 455x17 round tubular widely spaced.	✓	✓	✓
Centre Line Bulkhead. Stiffeners and Spacing	✓	✓	✓	✓
Plating, thickness of	✓	✓	✓	✓
STRINGERS AND DECKS. Uppermost Continuous Deck.	✓	✓	✓	✓
Stringer Plate, breadth and thickness in 'tween	1750 x 13 1/2	increased to 16 1/2 in way of doors aft.	✓	✓
" " " " in way of Bridge	✓	✓	✓	✓
" Angle in 'tween	150 150 13 1/2	✓	✓	✓
Thickness of Plating abreast Deck openings in way of 'tween	11	✓	✓	✓
Thickness of Plating abreast Deck openings in way of Bridge	✓	✓	✓	✓
Thickness of Plating within line of openings	10	✓	✓	✓
If Sheathed, material and thickness	outside houses 63 1/2 in teak.	✓	✓	✓
Second Deck. Stringer Plate, breadth and thickness in 'tween	1680 x 10	✓	✓	✓

SHELL PLATING.

SCANTLINGS.				RIVETING.								
STRAKES.	AS IN VESSEL.			ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.		AFT.	State if jagged?	RIVETS.		No. of Rows of Rivets.	RIVETS.		
	Breadth.	Thickness.	Thickness.		Thickness.		SINGLE OR DOUBLE.	Diam.		Spacing cr. to cr.	Diam.	Spacing cr. to cr.
	$\frac{Inches}{Feet}$	$\frac{Inches}{Feet}$	$\frac{Inches}{Feet}$	$\frac{Inches}{Feet}$		$\frac{Inches}{Feet}$	$\frac{Inches}{Feet}$		$\frac{Inches}{Feet}$	$\frac{Inches}{Feet}$		
FLAT PLATE KEEL	1290 ✓	20 ✓	19½ ✓	18 ✓		double ✓	1" ✓	7 pairs ✓	3+3 ✓	1" ✓	90 ✓	db. shep.
" DBLG. (if any)	1850 ✓					✓				✓		
BOTTOM PLATING, No. of Strakes	1770 ✓	15 ✓	12 ✓	12½ ✓	✓ see also plans.	double ✓	7/8 ✓	8 pairs ✓	3 ✓	7/8 ✓	80 ✓	lapped.
BILGE PLATING, No. of Strakes		14½ ✓	13½ ✓	12½ ✓		" ✓	7/8 ✓	8 - ✓	3 ✓	7/8 ✓	80 ✓	"
SIDE PLATING, No. of Strakes	1770 ✓	15 ✓	11½ ✓	12½ ✓		" ✓	7/8 ✓	8 - ✓	3 ✓	7/8 ✓	80 ✓	"
UPPER DECK, Sheer-strake in 'tween	1700 ✓	18 ✓	12 ✓	14 ✓	✓ approved 1295 x 18 5/16	" ✓	7/8 ✓	8 - ✓	4 ✓	7/8 ✓	90 ✓	"
UPPER DECK, Sheer-strake in Bridge	✓	✓	✓	✓		✓				✓		
STRAKE BELOW Sheer-strake in 'tween	1700 ✓	17 ✓	11½ ✓	12 ✓		double ✓	7/8 ✓	8 pairs ✓	4 ✓	7/8 ✓	90 ✓	lapped
STRAKE BELOW Sheer-strake in Bridge	✓	✓	✓	✓		✓				✓		
POOP SIDE PLATING				9½ ✓		single ✓	19 1/4 ✓	75 1/2 ✓	2 ✓	19 1/4 ✓	65 ✓	lapped
BRIDGE SIDE PLATING	✓	✓	✓	✓		✓				✓		
FORECASTLE SIDE PLATING			10 ✓	✓		single ✓	19 1/4 ✓	75 1/2 ✓	2 ✓	19 1/4 ✓	65 ✓	lapped

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel	Extending to Upper Deck (Sec. 3 c)	Deck next below	As per Rule
7	✓	✓	7

STIFFENERS.

	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks	6 1/2 ✓ ~ 7	4 140 × 75 × 9	685 ✓ ~ 760	✓	✓
	7 1/2 ✓ ~ 8	5 165 × 75 × 11	685 ✓ ~ 760	✓	✓
" " Second "	8 1/2 ✓ 10 1/2	5 230 × 90 × 12 1/2	685 ✓ ~ 760	✓	✓
" " Third "	8 1/2 ✓ ~ 11 1/2	5 200 × 90 × 13	610 ✓ 600 beams.	✓	✓
COLLISION (in Hold) "	8 ~ 9	250 × 90 × 12 9-40-9 pp.	535	✓	✓
AFTER PEAK "					

Speed of Vessel.....	16 Knts. ✓
RUDDER—Type.....	Ord. type.
" A × D	1880 ✓
" Diam. of head	325 ^{mm} ✓
" Mainpiece at top pintle	Cast-steel ✓ 1 1/2 Yards
" " heel ...	rudder frame ✓ 5 feet
" how constructed	Side plate.
" double or single plate	double. 13 ^{mm} ✓
" coupling, vertical or horizontal	Vertical ✓

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open hearth process.*

Plates: Deutsche Rohrenwerke A.G.

Profiles: Dortmund-Hörder Hüttenverein A.G.

Has the Steel been tested as required by the Rules? *yes*

EQUIPMENT No. 3730/Metric

LETTER a +

ANCHORS.

Number of Certificate.	Anchor.	Weight, Ex. Stock.	Weight of Stock.	Test, per Certificate.	Weight Required by Table 33.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
3104	1st Bower	70	3	13	54 0 0 0	68	gruson	016 gruson sh. 17.9.37, N. Sloth
3105	2nd "	70	2	16	54 5 0 0	✓	stockess.	" " " "
3106	3rd "	66	2	5	51 19 1 14	19 1/2	Magdeburg	" " " "
3108	Stream	19	2	6	20 8 1 21	19	Ord. stock.	" " " "
3107	Stream anchor	31	0	3	29 9 1 14	✓	gruson stockess.	" " " "

CHAIN CABLES.

Number of Certificate.	Length and size supplied.	Test per Certificate.	Weight of Chain Cable.	Length and size per Table 33.	Description.	Makers of Cables.	Where and when tested and Superintendent.	Material.	Length and size supplied.	Breaking Test of Steel Wire.	Length and size per Table 33.
	Length. Diam.	Tons. Tons.	Supplied.	Per Rule.					Length. Cir.	Tons. Tons.	Length. Cir.
88596	270	2	✓	31.2.22	720 1/4	270	270	✓	270	69.8	220
88602	15	2	✓	31.3.14	✓	✓	✓	✓	220	69.8	220
88603	15	2	✓	31.3.14	✓	✓	✓	✓	220	69.8	220
88604	15	2	✓	31.3.19	✓	✓	✓	✓	220	69.8	220
88605	15	2	✓	31.3.19	✓	✓	✓	✓	220	69.8	220
105631	60	1 1/2	57	77 1/2	65.2.14	✓	✓	✓	220	69.8	220
105631	165 M	127	76.6	✓	165 M	127	✓	✓	220	69.8	220

HAWERS AND WARPS.

Number of Certificate.	Length and size supplied.	Test per Certificate.	Weight of Chain Cable.	Length and size per Table 33.	Description.	Makers of Cables.	Where and when tested and Superintendent.	Material.	Length and size supplied.	Breaking Test of Steel Wire.	Length and size per Table 33.
	Length. Diam.	Tons. Tons.	Supplied.	Per Rule.					Length. Cir.	Tons. Tons.	Length. Cir.
88596	270	2	✓	31.2.22	720 1/4	270	270	✓	270	69.8	220
88602	15	2	✓	31.3.14	✓	✓	✓	✓	220	69.8	220
88603	15	2	✓	31.3.14	✓	✓	✓	✓	220	69.8	220
88604	15	2	✓	31.3.19	✓	✓	✓	✓	220	69.8	220
88605	15	2	✓	31.3.19	✓	✓	✓	✓	220	69.8	220
105631	60	1 1/2	57	77 1/2	65.2.14	✓	✓	✓	220	69.8	220
105631	165 M	127	76.6	✓	165 M	127	✓	✓	220	69.8	220

Steering Gear, Type (Power or hand) *Alt. electric, Th. B. Thrig, Odense.* Alternative Means of Steering *Hand steering (Pump wheel).*

Steering Chains (Size and Test) *Windlass Electric. J. Penner-Markusfabr. Boats 22 1/2 x 5 x 5 x 2 1/2 (duply).*

Ceiling in Holds, thickness and material *2 1/2" pine. au. 2" battens.* Cargo Battens, thickness, material and spacing *6 1/2" pine, sp. 9" apart.*

Cargo Hatchways. (Upper Deck) *5 1/2" coaming, 11 1/4".* Thickness of Hatches *75 1/4 wood covers.*

Size of Hatchways No. 1 (Fwd.) *8540 x 5500* No. 2 *9120 x 5500* No. 3 *5320 x 5500* No. 4 *7600 x 5500* No. 5 *7600 x 5500* No. 6 *7600 x 5500*

Number of Shifting Beams *Nº 1 - 5 off, Nº 2 - 5 off, Nº 3 - 3 off, Nº 4 - 4 off, Nº 5 - 4 off.*

Builder's Signature *A. D. Sij*

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel *no.* The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point (where required to be inserted in the Notation).

This vessel has been built in accordance with the approved plans, Secretary's letters and to the Rules of this Society for the class contemplated.

The material and workmanship is to my satisfaction.

All the double bottom, peak and deep tanks, weather decks, W.T. bulkheads, tunnel, scuppers, air & sounding pipes and doors in ship's sides have been tested in accordance with the Rules and found satisfactory.

The vessel is fitted for the carriage of oil fuel in the double bottom tanks.

Flash point of oil fuel above 150° Fahr.

Section 20 of the Rules have been complied with where applicable.

The Rules for electric arc welding to ship construction have been complied with where applicable.

The freeboards, assigned by the Committee, have been marked on the ship's sides, verified and cut in.

The amount of Entry Fee	Fees applied for,	(Special notations, where part of class, to be stated.)
<i>Kr. 224.00</i>	<i>14.1.1938</i>	
Special Survey Fee <i>Kr. 8520.96</i>	Received by me, <i>8/2.1938</i>	I am of opinion the Vessel should be Classed <i>100 A.1.</i>
Freeboard Fee <i>Kr. 403.20</i>		<i>with freeboard.</i>
Travelling Expenses, if any <i>Kr. 685.95</i>		
Lab. Fee <i>Kr. 30.00</i>		
State whether the Vessel has been built under Special Survey <i>yes</i>	Signature <i>H. J. Hyderen.</i>	Surveyor to Lloyd's Register of Shipping.
Certificate to be sent to Surveyors' office, Copenhagen. Date of issue <i>14/3/38</i>		

Committee's Minute *FRI 23 JAN 1938*

Character assigned *+ 100 A.1 With freeboard*

Lloyd's arch. + Limb. 12.37

or Mr. Li

W. H. C. 1938

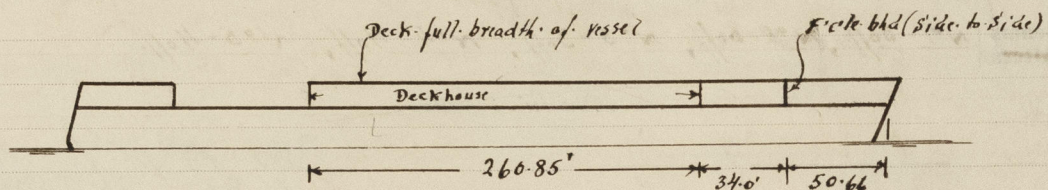
2/2

Lloyd's Register

0046440-004650-0176

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

Two sister vessels building at Messrs. Nakskov Skibsverft. - Yard N^{os} 83 & 84.



PARTICULARS OF ELECTRIC WELDING (if employed) Head and feet of pillars. Gussel angles to tank top. Ventilator. Coamings to deck. Foundations for aux. motors. Electrodes used: + O.K. 52.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book Cruiser-stern - D.F. - Lloyd's A & C.P. - O.L. Ref. Mch. - E.S.D. - (P)

	Head.	Stem.
Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower 44.1.16, N.S., 1704, 9.9.37. 2nd „ 45.1.4, N.S., 1705, 9.9.37. 3rd „ 44.2.12, N.S., 1706, 9.9.37. Stock 18.1.0, N.S., 1708, 9.9.37. Stem 19.3.13, N.S., 1707, 9.9.37.	21.2.18, N.S., 1709, 9.9.37. 21.0.23, N.S., 1710, 9.9.37. 17.3.14, N.S., 1711, 9.9.37. 8.3.8, N.S., 1712, 9.9.37.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 45.16 ft., R.Q.D. ft., Bridge ft., Forecastle 50.66 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated please see sketch above.

Official No. ✓ Signal Letters C.B.C.B. Extreme Breadth over Belting (Circ. 1611) Over-all Length 440.48' ✓
No. and Material of Decks 2 decks and shelter-deck (sh. w.s.) 3 decks
Parts of Bottom of Vessel coated with cement or approved composition Fore peak, After peak, deep tanks coated with cement. pt. cement.
Double bottom tanks for oil fuel.
Particulars of composition (if fitted) and of approval

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	112.21	277	Fore peak tank,	22.66	42
Double bottom, under Engines and Boilers,	47.87	438	After peak tank,	27.5	125 133
Double bottom, if under Engines only,	✓	✓	Deep tank, aft, (p.s.)	7.5	2* 77
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,		
Double bottom, forward,	197.66	658	Other tanks, if fitted,		
Total length (if continuous) and Capacity		13 73	(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 106
Date 19th Aug. 1936.
Dates of Surveys held while building
1937. 12/4, 12/5, 19/5, 2/6, 3/6, 9/6, 15/6, 24/6, 25/6, 30/6, 8/7, 9/7, 27/7, 28/7, 27/8, 27/8, 12/8, 17/8, 24/8, 25/8, 1/9, 2/9, 9/9, 10/9, 16/9, 17/9, 22/9, 23/9, 24/9, 27/9, 1/10, 2/10, 12/10, 13/10, 18/10, 26/10, 1/11, 5/11, 10/11, 11/11, 18/11, 19/11, 24/11, 25/11, 29/11, 1/12, 3/12, 8/12, 9/12, 13/12, 14/12, 16/12, 17/12.
Lloyd's Register Foundation
Total No. of Visits 53.