

WRECK  
SECTION

## STEEL STEAMER OR MOTORSHIP.

Received at London Office

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 November 3rd 1948.Port of LEGHORN, Italy.No. 1306. (Genoa No. 16926)Survey held at LEGHORNDate First Survey November 22nd 1947Last Survey August 23rd 1948.

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

Motor Trawler "SANTA MAFALDA" - Machinery Aft.

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

Full ScantlingsState Type of Erections Forecastle & Poop.TONNAGE under Tonnage Deck ... 989.05CLASS 100 A 1State if with freeboard as condition of Class No.Built at Leghorn

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

Length from fore part of stem to after part of stern post on summer L.W.L. - See Sec. 3 (1a) 212.44Breadth (greatest moulded) B 36.09Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 20.01st Longitudinal Number (L x D) 42492nd Numeral L x (B + D) 11916Framing Depth "d," at middle of length. See Sec. 3 (1d) 10.61Proportions—Depth to Length—Uppermost continuous deck to top of keel 10.61Do. Long Bridge to top of keel ✓Draught Moulded ✓Launched May 16th 1948 Yard No. 221Builders Messrs. ODERO-TERNI-ORLANDOOwners Empresa de AveiroManagers do.

(Where necessary to be entered in Reg. Book)

Residence Aveiro, PortugalPort of Registry Aveiro

If surveyed while building, afloat, or in dry dock

While building.

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	mm. IN SHIP.	Any Departure from Approved Plans to be Noted.		mm. IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships.....	600 ✓		Bracket Floors, Frame .....	no 65 9	
" " from 1/2 length amidships to Collision bulkhead.....	600 ✓		" " Reversed Frame.....	140 65 9	
" " in peaks .....	600 ✓		" " Vertical Struts .....	700 75 8.5 11.5	
WIDE FRAMING.			Centre Girder, depth and thickness amidships	900 10	
Frame Amidships, Angle, [ or ] .....	180 75 10.5 ✓		" " top Angles .....	75 75 10	75x75x9 ✓
" " Extends up to.....	Upper Deck ✓		" " bottom Angles.....		
Reversed Frame Amidships, Angle .....			Side Girders, No. each side and thickness.....	One 75 ✓	
" " Extends up to .....			Margin Plate depth (excl. of flange) and thickness .....	Horizontal ✓	
Depth of Framing Girder.....	180 ✓		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem .....		
Frames in Uppermost Continuous 'tween Decks, Angle, [ or ] .....			" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area .....		
" " Second 'tween Decks, Angle, [ or ] .....			" " Gussets, spacing and scantling abaft 1/4 len. from stem.....		
" " Third " " Coll. Bk. hd. ✓			" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area .....		
" " from 1/2 len. for'd. to 15% len. from Stem .....	200 90 10 ✓	190x75x9.5 ✓	Tank Side Brackets, height above base line at toe of Frame and thickness		Main frames scarphed onto Double Bottom. ✓
" " in Peaks, Angle or [ ✓	165 75 10.5	0.A. 170x75x11.5 ✓			
Diameter and Spacing of Rivets through Frame and Shell Plating amidships .....	ø 19 sp. 7d		INNER BOTTOM PLATING.		
State if Frame Joggled.....	Yes. ✓		Breadth and thickness of Middle Line Strake...	1400 9.5	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? .....	Yes. ✓		Thickness of remainder in Holds .....	8 ✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved? .....	Yes. ✓		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 ✓	
DOUBLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds.....			Uppermost Continuous Deck, amidships in way of Bridge, Angle, [ or ] .....	150 75 8	150x75x9.50.A
Height of Brackets at side above base line at toe of frame.....			" " Spacing .....	every	
Middle Line Keelson, on Floors, Angles, [ or ] .....			Second Deck, amidships, Angle, [ or ] .....		
" " Through Plate or Inter-costal Plate .....			" " Spacing .....		
" " Foundation Plate on Floors .....			Third Deck, amidships, Angle, [ or ] .....		
" " Flat Plate Keel Angles .....			" " Spacing.....		
Side Keelsons, No. each side.....			Fourth Deck, amidships, Angle, [ or ] .....		
" " thickness of Inter-costal Plate...			" " Spacing.....		
" " Angles .....			Poop Deck, Angle, [ or ] .....	130 65 8 ✓	
DOUBLE BOTTOM.			" " Spacing.....	every	
Solid Floors, thickness and spacing .....	8 mm - Every 3rd ✓		Bridge Deck, Angle, [ or ] .....		
" " Are Frame and Reversed Frame joggled? .....			" " Spacing.....		
Bracket Floors, breadth and thickness at middle line .....	800 8.5 ✓		Forecastle Deck, Angle, [ or ] .....	150 75	10 See letter 20.1.49
" " breadth and thickness at margin plate.....	1400 8.5 ✓		" " Spacing.....	every	

(MADE IN ENGLAND.)

004799-004809-0079/12



# PILLARS AND DECKS.

				IN SHIP.	Any Departure from Approved Plans to be Noted.	IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows	Two						
" in 'tween Decks, Size and Spacing							
" in Holds	Tubular	160 x 10 every 6th					
Centre Line Bulkhead. Stiffeners and Spacing							
Plating, thickness of							
STRINGERS AND DECKS.							
Uppermost Continuous Deck.		1270 See letter 20.1.49					
Stringer Plate, breadth and thickness	1170 x 11.5						
" in way of Bridge							
Angle in Wells	90 90 11.5						
Thickness of Plating abreast Deck openings in way of Wells	7						
Thickness of Plating abreast Deck openings in way of Bridge	7						
Thickness of Plating within line of openings	7						
If Sheathed, material and thickness	65 mm. Pine.						
Second Deck.							
Stringer Plate, breadth and thickness in Wells							
Stringer Plate, breadth and thickness in way of Bridge							
Thickness of Plating within line of openings							
If Sheathed, material and thickness							
Third Deck.							
Stringer Plate, breadth and thickness							
If Plated, state thickness							
Fourth Deck.							
Stringer Plate, breadth and thickness							
If Plated, state thickness							
Poop Deck.							
Stringer Plate, breadth and thickness	600 7						
Plating, Sheathing, material and thickness	Pine 65						
Bridge Deck.							
Stringer Plate, breadth and thickness							
Plating, Sheathing, material and thickness							
Forecastle Deck.							
Stringer Plate, breadth and thickness	700 7.5						
Plating, Sheathing, material and thickness	Pine 75						

## SHELL PLATING.

SCANTLINGS.					RIVETING.				
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			
	AMIDSHIPS.		FORWARD.	AFT.		No.		BUTTS.	
	Breadth.	Thickness.	Thickness.	Thickness.		State if jogged?	RIVETS.	No. OF ROWS OF RIVETS.	RIVETS.
Carboard									
Flat Plate Keel	1200	14	13	12.5		Double	19 86		
" Dblg. (if any)									
Bottom Plating, No. of Strakes	1300	12.5	13.5	11.5		Double	19 86		
Bilge Plating, No. of Strakes	1400	12.5	15.	11.5		Double	19 86		
Side Plating, No. of Strakes	1300	12.5	15.	11.		Double	19 86		
Upper Deck, Sheer-strake in Wells	1250	14.5	11.	11.		Double	19 86		Butts electrically welded
Upper Deck, Sheer-strake in Bridge									
Strake below Sheer-strake in Wells	1250	12.5	12	11.	Increased to 14.5 in way of Gallows	Double	19 86		
Strake below Sheer-strake in Bridge				7.		Single	16 75		
Poop Side Plating									
Bridge Side Plating									
Forecastle Side Plating			7.5			Single	16 75		

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—  
 Extending to Upper Deck (Sec. 3 c) 7 5 for record  
 " Deck next below  
 As per Rule 3

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper 'tween decks					
" Second					
" Third					
" Holds	6.5/8.5	150x75x9	700		
COLLISION (in Hold)	8/10	150x75x9.5	610	Horiz. Flat.	
AFTER PEAK	8/9	140x65x9	600		

## FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Depa from App Plans to be
KEEL, Bar		200 x 45		
STEM	Plate	16 - 12		
STERN FRAME	Propeller Post			
	Rudder		Fabricated as per Plan	
Speed of Vessel		12 Knots		
RUDDER—Type		Cast Steel Frame		
" A x D. x	100 - 833			
" Diam. of head		230		
" Mainpiece at top pintle		200 x 230		
" heel		170 x 230		
" how constructed		As per Plan		
" double or single plate		9		
" 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)  
 TERNI, Società per l'Industria e l'Elettricità, Terni.  
 ILVA, Alti Forni & Acciaierie d'Italia, Savona, Marghera & Piombino.  
 Has the Steel been tested as required by the Rules? Yes;



EQUIPMENT No. 11916

LETTER f

ANCHORS.

Number of Certificate.	Anchors.	WEIGHT EX STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested, and Superintendent.
		Cwts.	Lbs.	Ks.	Cwts.	Lbs.	Ks.	Tons.	Cwts.	Lbs.				
222	1st Bower	1200			23980			1206				Cast Steel Stockles	SIAC	Genoa 24.3.48 G. Maggi
233	2nd "	1179			23648			1132						" 29.6.48 "
232	3rd "	1170			23512			1132						" 29.6.48 "
	Collective weight	3549						3470						
223	Stream	337			78			9035			318	Common	do	" 24.3.48 "

## CHAIN CABLES.

## HAWSERS AND WARPS.

Number of Certificate.	Length and size supplied.		Test per Certificate.	WEIGHT OF CHAIN CABLE.			Length and Size per Table 53.	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 53.	
	Length.	Diam.		Supplied.	Per Rule.		Length.	Diam.				Length.	Cir.		Length.	Cir.
708	385	38	40940	12.620	12.300	220	385	38	Stud Link	Soc. Pignone, Leghorn	TOWLINE					
			59350							16.10.47 P. L. Benvenuto	HAWSERS & WARPS	110	152	Manila		
												110	152	Manila		

Gear, Type (Power or hand) **Hydro Electric**

Alternative Means of Steering

**Hand**

Chains (Size and Test)

Windlass

**Electric**

Boats; N° 4 Life Boats

N° 1 Service Boat

Holds, thickness and material **65 mm - Pine & cement**

Cargo Battens, thickness, material and spacing

Hatchways. (Upper Deck)

**4**Thickness of Hatches **7 mm Steel**

metres

Hatchways No. 1 (Fwd.) **2.40 x 2.40**No. 2 **2.40 x 2.40**No. 3 **2.40 x 2.40**No. 4 **2.40 x 2.40**

No. 5

No. 6

of Shifting Beams

Fore and Afters

**None - Flanged and stiffened Steel Plate Hatch Covers.**

Societa per Azioni

Builder's Signature

GANTIERI DI LIVORNO

RAL 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.  
(b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo. 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 Society's Trawler Rules and Regulations.

The scantlings and arrangements are in accordance with the approved plans ( ) in number as per attached list) The workmanship is good.

The whole of the Double Bottom Tanks, fore and after Peaks, Oil Fuel Bunkers, F.W. Deep Tanks, W.T. Bulkheads and weather decks have been tested as required by the Rules with satisfactory results.

The Steering gear and Windlass have been tried in working conditions and found satisfactory.

O.F. Flash Point above 150° F. is carried in D.B. between frames 21 and 32 in three Bunkers each side in the wings of the motor space, in a cross bunker between frames 33 and 36. The Frwd. Deep Tank between frames 92 and 100 can also be used as spare Bunker.

The whole requirements of Section 40 of the Rules have been complied with.

Spec. Survey Fee (Legh. A/C) 200,000.  
50% to London A/C 200,000.  
Part Special Survey Fee (Genoa) 100,000.  
Trav. Exps. (Leghorn) 5,000.  
Travelling Expenses, if any (Gen.) 35,000.  
Revenue Tax (Genoa A/C) 21,600.

Fees applied for,

18/11/48.

Payable in Leghorn.

Received by me,

19

(Special notations, where part of class, to be stated.)

I am of opinion the Vessel should be Classed **+ 100 A 1.**  
With Notation "Strengthened for Navigation in Ice"

Motor Trawler

Signature

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to

Date of issue

Committee's Minute

FRI. 7 JAN 1949

Character assigned

+ 100 A 1

Motor Trawler

+ Lmc 8.48

Oil Eng

DB 105 lb

Write Gen

Lloyd's A &amp; CP

Strengthened for Navigation in Ice

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Lloyd's Register Foundation

00792/2



**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.)

A Capacity and a rigging plan showing vessel as built are enclosed herewith. A complete set of approved plans is already on the London office. Three forging and castings certificates are also enclosed.

**PARTICULARS OF ELECTRIC WELDING** (if employed) Butts of Shell Plates - Beam Knees to lower edge of Beams - Sternframe etc. The welding has been carried out by experienced Operators using "CITOMAR" electrodes.

**SPECIAL NOTATIONS**—Either as part of the vessel's class or for record in the Register Book. Cruiser Stern. Machinery After. Bar Keel. E.S.D. See Report on Elec. Equipment

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	Weight Ks. 746	Surveyor's Initials A.M. N° of Cert. 220	Date 6.3.48
	2nd "	" " 743	" " A.M. N° of Cert. 229	" 23.6.48
	3rd "	" " 735	" " A.M. N° of Cert. 228	" 23.6.48
			14.5' See letter 20.1.48	> 52.4

**PARTICULARS FOR RECORD in the REGISTER BOOK.**—Length of Poop 12.3 ft., R.Q.D. ft., Bridge ft., Forecastle 48.5 ft.

(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length 233.0 (Circ. 1703)

No. and Material of Decks 1 Dk Steel (w.s) Double Bottom Tanks - Fore and After Peaks

Parts of Bottom of Vessel coated with cement or approved composition

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. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	13	37
Double bottom, under Engines and Boilers,			After peak tank,	14	28
Double bottom, if under Engines only,	37	36	Deep tank, aft, Tanks at sides of tunnel	18	31
Double bottom, if under Boilers only,			Deep tank, forward, Spare O.F. Bunker	16	81
Double bottom, forward,	91	158	Other tanks, if fitted,		
Total length (if continuous) and Capacity		159	(If necessary furnish further information by sketch.)		

Order for Special Survey No.

Date

Dates of Surveys held while building

Nov. 22, 23, 27, 30, Dec. 3, 11, 19, 20, 22, 30 1947 - Jan. 1, 7, 13, 14, 16, 20, 26, 29, Feb. 2, 5, 9, 13, 17, 18, 20, 23, 24, 26, Mar. 2, 4, 8, 11, 15, 17, 19, 23, 25, 27, 30, Apr. 6, 9, 13, 14, 15, 21, 22, 23, 24, 26, 29, May 1, 3, 5, 8, 9, 12, 13, 15, 16, 17, 18, 20, 21, 22, 24, 25, 27, 29, Jun. 1, 2, 3, 4, 7, 8, 10, 11, 14, 15, 16, 17, 18, 19, 21, 23, 24, 26, 28, Jul. 1, 2, 4, 5, 6, 7, 8, 10, 13, 14, 15, 17, 19, 22, 24, 25, 26, 27, 28, 29, 31, Ago. 2, 3, 4, 6, 7, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22 & 23 1948. Total No. of Visits 134