

State if Report is sent on the Machinery of the Vessel. Yes

Survey held at Hamburg Date First Survey 28 - 1 - 46. Last Survey 6 - 3 - 1947.

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) single screw motor vessel "EMPIRE ALDE" (ex Pelikan)

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Complete superstructure without tonnage openings State Type of Erections on shelter deck.

CLASS Contemplated 100A1 State if with freeboard } Yes
as condition of Class }

Built at Bremen-Vegesack

Launched 1935 Yard No. 712

Builders Bremer Vulkan

Owners Elders & Fyffes, Ltd.

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

Residence _____

Port of Registry.....London

refitting
If surveyed while ~~loading~~, afloat, or in dry dock

Afloat and in drydock

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.
AMES, Spacing amidships.....	700	✓			Bracket Floors, Frame	180	90	12	✓
" " from $\frac{3}{8}$ length amidships to Collision bulkhead.....	700	✓			" " Reversed Frame.....	180	75	10	✓
" " in peaks	Fore peak 410 ✓ Aft peak 600 ✓				" " Vertical Struts	180	75	9	✓ L 120 x 75 x 9
DE FRAMING.					Centre Girder, depth and thickness amidships	1700	10	-	✓
Frame Amidships, Angle, E or F	180	90	9	✓	" " top Angles	75	75	11	✓
" " Extends up to.....	upper deck.	✓			" " bottom Angles.....	110	110	12	✓
Reversed Frame Amidships, Angle	-	-	-		Side Girders, No. each side and thickness.....	one	9	-	✓
" " Extends up to ...	-	-	-		Margin Plate depth (excl. of flange) and thickness	760	12	-	✓
Depth of Framing Girder.....	-	-	-		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	90	9	-	✓
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	180	90	9	✓	" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area	150	9	-	where solid floor
" " Second 'tween Decks, Angle, E or F	180	90	9	✓	" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	Continuous	✓		
" " Third " " " " " " " " " "	180	90	9	hold.	" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area	550	9	-	✓
" " collision Bulkhd. from $\frac{6}{10}$ len. for'd. to $\frac{15}{100}$ len. from Stem	230	90	11	✓ and aft peak	Tank Side Brackets, height above base line at toe of Frame and thickness	1700	105	✓	
" " Fore in Peaks, Angle or F	180	90	8.5	✓	INNER BOTTOM PLATING.				
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	22 dia & 7 d. spacing				Breadth and thickness of Middle Line Strake..	1250	12	10	✓
Date if Frame Joggled.....	no	✓			Thickness of remainder in Holds	10	9	-	✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved ?	Germanischer Lloyd	✓			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 ?.....	Germanischer Lloyd	✓		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved ?.....	Lloyd	✓			BEAMS.				
SINGLE BOTTOM.					Uppermost Continuous Deck, amidships in Wells, Angle, E or F	150	75	8.5	✓
Floors, Depth and thickness at mid-line in Holds.....					" " in way of Bridge, Angle, E or F	150	75	8.5	✓
Height of Brackets at side above base line at toe of frame.....					Spacing	every frame	✓		
Middle Line Keelson, on Floors, Angles, E or F					Second Deck, amidships, Angle, E or F	150	75	10.5	✓
" " Through Plate or Intercoastal Plate					Spacing	every frame	✓		
" " Foundation Plate on Floors					Third Deck, amidships, Angle, E or F	150	75	10.5	✓
" " Flat Plate Keel Angles					Spacing.....	every frame	✓		
Keels, No. each side.....					Fourth Deck, amidships, Angle, E or F	-	-	-	
" thickness of Intercoastal Plate....					Spacing.....	-	-	-	
" Angles					Poop Deck, Angle, E or F	165	75	8	✓
DOUBLE BOTTOM.					Spacing.....	2 frame spaces	✓		
Solid Floors, thickness and spacing	90 every 3rd frame				Bridge Deck, Angle, E or F	130	65	7.5	✓
" Are Frame and Reversed Frame joggled ?	Yes	✓			Spacing.....	2 frame spaces			
Bracket Floors, breadth and thickness at middle line	740	9	✓		Forecastle Deck, Angle, E or F	200	75	9	✓
" breadth and thickness at margin plate.....	740	9	✓		Spacing.....	2 frame spaces			

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		3	-	-	-	Stringer Plate, breadth and thickness in way of Bridge		1080	91
" in 'tween Decks, Size and Spacing		75	✓	-	-	Thickness of Plating abreast Deck openings in way of Wells		8	✓
" " " " " "		85	✓	7	frame spaces	Thickness of Plating abreast Deck openings in way of Bridge		8	✓
" in Holds " " " "		105	✓	-	-	Thickness of Plating within line of openings		7.5	✓
" " " " " "		130	✓	-	-	If Sheathed, material and thickness		-	-
Centre Line Bulkhead, Stiffeners and Spacing		-	-	-	-	Third Deck, Stringer Plate, breadth and thickness		1080	8
Plating, thickness of		-	-	-	-	If Plated, state thickness		7.5	✓
STRINGERS AND DECKS.									
Uppermost Continuous Deck, Stringer Plate, breadth and thickness in Wells		1170	13	-	-	Fourth Deck, Stringer Plate, breadth and thickness		-	-
" " " " " in way of Bridge		1170	13	-	-	If Plated, state thickness		-	-
" Angle in Wells		110	110	13	90 x 90 x 12.5	Poop Deck, Stringer Plate, breadth and thickness		1000	9
Thickness of Plating abreast Deck openings		9	✓	-	-	Plating, Sheathing, material and thickness		7.5	Oregon pine 65 m
Thickness of Plating abreast Deck openings in way of Bridge		9.5	✓	-	-	Bridge Deck, Stringer Plate, breadth and thickness		-	-
Thickness of Plating within line of openings		9	✓	-	-	Plating, Sheathing, material and thickness		-	-
If Sheathed, material and thickness		-	-	-	-	Forecastle Deck, Stringer Plate, breadth and thickness		950	8
Second Deck, Stringer Plate, breadth and thickness in Wells		1080	9	-	-	Plating, Sheathing, material and thickness		7.5/6.5	Oregon pine 65

SHELL PLATING.												
SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.				
	AMIDSHIPS.	FORWARD.	AFT.	Thickness.		State if beveled?	RIVETS.	No. of Rows of Rivets.	RIVETS.	STRAPPED LAPPED.		
Flat Plate Keel	1820	16.5	16.5	14.5	A.	Double	22	4a	2	22	3.5a	double strapped
" Dblg. (if any)	-	-	-	-	-	"	22	4a	3	22	3.5a	lapped
Bottom Plating, No. of Strakes	-	13.5	20	11.5	BC.	"	22	4a	3	22	3.5a	"
Bilge Plating, No. of Strakes	-	13.5	20	11.5	D.	"	22	4a	3	22	3.5a	"
Side Plating, No. of Strakes	-	13.5	20	11.5	RF.	"	22	4a	3	22	3.5a	"
Upper Deck, Sheer-strake in Wells	1600	15.5	11.5	11	4(E)	"	22	4a	4	22	3.5a	"
Upper Deck, Sheer-strake in Bridge	1600	16.5	11.5	11	H.	"	22	4a	3	22	3.5a	"
Strake below Sheer-strake in Wells	-	15.5	12	11	G(E)	"	22	4a	3	22	3.5a	"
Strake below Sheer-strake in Bridge	-	15.5	-	-	G.	"	22	4a	-	22	3.5a	"
Poop Side Plating	-	-	-	9	-	Single	19	4a	2	19	3.5a	Lapped
Bridge Side Plating	-	6	-	-	-	"	19	4a	1	16	6a	"
Forecastle Side Plating	-	-	9.5	-	-	"	19	4a	2	19	3.5a	"

WATERTIGHT BULKHEADS.									
Total No. of W.T. BULKHEADS in Vessel—									
Extending to Upper Deck (Sec. 3 c) 5 (16 W dk 4 16 2nd dk)									
Deck next below -									
As per Rule -									
STIFFENERS.									
	Plating Thickness.	VERTICAL.		HORIZONTAL.					
		Scantlings.	Spacing.	Scantlings.	Spacing.				
MIDSHIP BULKHEAD, Upper 'tween decks	-	-	-	-	-	-	-	-	-
" " Second	6.5	80x50x6x7	7	690	-	-	-	-	-
" " Third	-	-	-	-	-	-	-	-	-
" " Holds	8.5	140x65x7.5	5	690	-	-	-	-	-
COLLISION (in Hold)	9	150x75x10	5	750	-	-	-	-	-
AFTER PEAK	14	-	-	-	180x65x7.5	5	550	-	-
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)									
STEEL.									
Has the Steel been tested as required by the Rules?									

Particulars of equipment taken from Germanischer Lloyd's certificate enclosed with Mr. 14th letter 11-11-47.

EQUIPMENT No.										LETTER										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.													
-76719	1st Bower	154	-	15	49	✓	-	-	-	483	-	-	-	-	-	-	anchors tested by the Germanischer Lloyd												
-76717	2nd "	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
-76718	3rd "	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
-76720	Stream	16	3	20	12	✓	-	-	-	139	-	-	-	-	-	-	-												

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.							
-76719	D	240.8	2"	912	✓	516	538	210	2"	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
										TOWLINE										120		3 1/8		55.4		12.0		4"	
										HAWSERS & WARPS										240		2 1/8		29.3		2290		2 1/2	
																				240		2 1/2		19.3		2290		2 1/2	

Steering Gear, Type (Power or hand) Electric ✓ Alternative Means of Steering

Steering Chains (Size and Test) Windlass Electric Boats to be fitted in U.K.

Ceiling in Holds, thickness and material Cargo Battens, thickness, material and spacing

Cargo Hatchways.—(Upper Deck) Four (4) Thickness of Hatches 11 m/m 3 1/4"

Size of Hatchways No. 1 (Fwd.) 6300x7000 mm No. 2 6300x7000 mm No. 3 2500x2800 mm No. 4 2000x4000 mm No. 5 - No. 6 -

Number of Shifting Beams 2 2 1

Builder's Signature

See letter dated 24.9.51 from the Liverpool Surveyors in the harbour file

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 -

(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 specially surveyed with a view to Classification in the Register Book 100 A1 with freeboard.

The Society's Rules and Requirements for Special Survey have been dealt with in the case of this vessel. ✓

Structural alterations to poop and fore-castle have been effected at this time in accordance with approved plans.

A high standard of workmanship has been maintained during alterations, conversion from war time commitments and during present fitting out. ✓

All double bottom tanks, fore and aft peak tanks have been tested and found to be tight and sound. ✓

The amount of Entry Fee £ : : Fees applied for, 19.

Special Survey Fee £ 327.10 Received by me, 16.9.47

Travelling Expenses, if any £ : : 19

I am of opinion the Vessel should be Classed 100 A1 with freeboard.

State whether the Vessel has been built under Special Survey to G.L. Classification.

Certificate to be sent to Owners. ✓ Date of issue 13/2/48

Committee's Minute ✓

Character assigned 100A1 subject with freeboard 7.47 low S.S. Ham - 3.47 2nd 3.47 subject

White Lin Spl. Owners. S (CW) 6.47

Lloyd's Register of Shipping

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.)

Plans showing vessel as built forwarded to London Office 12/5/47 and noted as follows: -

1. Shell expansion.
2. Midship Section.
3. Water-tight bulkheads.
4. Longitudinal section with decks.
5. Oil fuel bunker.
6. Balanced Rudder.
7. Sternframe.

The following plans are also forwarded with this report: -

1. Tank air pipe arrangement.
2. Cargo door.
3. General arrangements.

(under separate cover).

PARTICULARS OF ELECTRIC WELDING (if employed)

SPECIAL NOTATIONS :—Either as part of the vessel's class or for record in the Register Book.

Vessel fitted for Carrying Refrigerated Cargoes. ✓

Particulars of Drop Test of Cast Steel Anchors, viz. :—
Weight, Surveyor's Initials,
Number of Certificate, Date
of Test.

1st Bower -
2nd „ -
3rd „ -

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 55.8' 75 ft., R.Q.D. - ft., Bridge - ft., Forecastle 94.7' 111 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 45' Over-all Length 378' - 1 1/2"
(Circ. 1611) (Circ. 1703)

No. and Material of Decks (one) continuous deck. Three decks extending from fore peak bulkhead to Motor room ford. bkd. and from Motor room aft bkd to aft peak bulkhead.

Parts of Bottom of Vessel coated with cement or approved composition - 2 Dks, 3rd sk clear of main space.

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.
Double bottom, aft No 6 P & S & No 7	64.3 (total)	112.5	Fore peak tank,	26.17	71
Double bottom, under Engines and Boilers, -	59.7	-	After peak tank,	19.	46.
Double bottom, if under Engines only, -	-	-	Deep tank, aft,	-	-
Double bottom, if under Boilers only, -	172.2	-	Deep tank, forward,	-	-
Double bottom, forward, No 3 P & S, No 2 & No 1, No 4	170 approx	431	Other tanks, if fitted,	-	-
Total length (if continuous) and Capacity	296.2	543.5	(If necessary furnish further information by sketch.)		

Order for Special Survey No. -
See Hamburg letter
dated 6th May 1946
Date.

Dates of Surveys
held while building

28th Jan 46, 2nd, 6th, 14th Feb., 4th, 11th, 14th Mar, 1st Apr. 21st, 22nd, 29th May,
13th June, 2nd, 3rd, 8th, 9th, 15th, 18th, 22nd, 23rd, 26th, 31st July, 8th Oct, 28th O
11th, 27th Nov, 4th Dec, 28th Jan 1947, 20th Feb. 5th & 6th Mar.

Total No. of Visits 31