

STEEL STEAMER or MOTORSHIP.

Received at London Office 16 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 8th June 1938

Port of Copenhagen

No. 10589.

Survey held at Odense

Date First Survey 14-10-1937

Last Survey 28-5-

1938

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

single screw motor tanker "OTINA" (machinery fitted aft)

State Type

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

Full scantling

State Type of Erections P, B & F

TONNAGE under Tonnage Deck... 5507.62

CLASS +100 A1

State if with freeboard as condition of Class

no

Built at Odense

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

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

L 425'-0"

Launched 22-3-38

Yard No. 73

Total 5507.62

Breadth (greatest moulded)

B 54'-3"

Builders Messrs. Odense Staalskonstrukt

Gross Tonnage 6216.62

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

D 31'-0"

Owners The Anglo Saxon Petroleum Co.

Register Tonnage 3603.90

1st Longitudinal Number (L x D) = 13175

Managers

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

2nd Numeral L x (B + D) = 36231

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

13.7

Residence London

REGISTERED DIMENSIONS.

FEET.

Length

431.5

Breadth

54.6

Depth

30.8

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

13.7

Port of Registry London

If surveyed while building, afloat, or in dry dock

while building

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	31 3/4	✓	Bracket Floors, Frame		
" " from 1/2 length amidships to Collision bulkhead	27	✓	" " Reversed Frame		
" " in peaks	24	✓	" " Vertical Struts		
SIDE FRAMING.			Centre Girder, depth and thickness amidships	59 .53-.43	✓
Frame Amidships, Angle, E or F	9 3 1/2 .44	✓	" " top Angles	3 1/2 3 1/2 1/2 double	✓
" " Extends up to	10 3 1/2 .44	✓	" " bottom Angles	4 4 .57 double	✓
Reversed Frame Amidships, Angle	—	For particulars of long framing please see Rpt 1 or back of this report.	Side Girders, No. each side and thickness	{ 2 .60-.40	✓
" " Extends up to	—		" " 1-1/2 height in way of engine		
Depth of Framing Girder	—		Margin Plate depth (excl. of flange) and thickness		
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	—		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem		
" " Second 'tween Decks, Angle, E or F	—		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area		
" " Third " " " "	—		" " Gussets, spacing and scantling abaft 1/4 len. from stem		
" " from 1/2 len. for'd. to 15% len. from Stem	—		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area		
" " in Peaks, Angle or F	8 3 1/2 .44	app. .35	Tank Side Brackets, height above base line at toe of frame and thickness	.46	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 - 5/16 Dia	✓	INNER BOTTOM PLATING, in motor room		
State if Frame Joggled	yes	✓	Breadth and thickness of Middle Line Strake	70 .68	✓
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	yes	✓	Thickness of remainder in Holds		✓
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. room space and framing in Bunkers and Boiler Room?	yes	✓
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	✓		Uppermost Continuous Deck, amidships in Wells, Angle, E or F	9 3 1/2 .375	✓
Height of Brackets at side above base line at toe of frame	✓		" " in way of Bridge, Angle, E or F	7 3 .33	✓
Middle Line Keelson, on Floors, Angles, E or F	3 1/2 3 1/2 .44 double	✓	Spacing	every frame	
" " Through Plate or Intercoastal Plate	40 .42	✓	Second Deck, amidships, Angle, E or F	8 3 .42	✓
" " Foundation Plate on Floors	✓		Spacing	every frame	
" " Flat Plate Keel Angles	4 4 .50 double	✓	Third Deck, amidships, Angle, E or F		
Side Keelsons, No. each side			Spacing		
" " thickness of Intercoastal Plate			Fourth Deck, amidships, Angle, E or F		
" " Angles			Spacing		
DOUBLE BOTTOM.			Poop Deck, Angle, E or F	7 3 .40-.33	✓
Solid Floors, thickness and spacing	.48 every frame	✓	Spacing	every frame	✓
" " Are Frame and Reversed Frame joggled?	yes	✓	Bridge Deck, Angle, E or F	8 3 .36	✓
Bracket Floors, breadth and thickness at middle line			Spacing	every frame	
" " breadth and thickness at margin plate			Forecastle Deck, Angle, E or F	9 3 1/2 .44	✓
			Spacing	every frame	

PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....			Stringer Plate, breadth and thickness in way of Bridge		
" in 'tween Decks, Size and Spacing.....			Thickness of Plating abreast Deck openings in way of Wells		
" " " " "			Thickness of Plating abreast Deck openings in way of Bridge		
" in Holds " "			Thickness of Plating within line of openings.....	.36	✓
" " " " "			If Sheathed, material and thickness	✓	
2" angle plate Centre Line Bulkhead.	10 3/2 .55 2 for d ✓		Third Deck.		
Stiffeners and Spacing.....	9 3/2 .44 2 ✓		Stringer Plate, breadth and thickness.....		
Plating, thickness of .....	.43 - .42 ✓		If Plated, state thickness.....		
	.45 - .42 for d ✓		Fourth Deck.		
STRINGERS AND DECKS.			Stringer Plate, breadth and thickness.....		
Uppermost Continuous Deck.			If Plated, state thickness		
Stringer Plate, breadth and thickness in Wells	75 .70 - .51 { approved 78 x .63 - .42 ✓		Poop Deck.		
" " " " in way of Bridge	75 .75 ✓		Stringer Plate, breadth and thickness	36 .36 ✓	
" Angle in Wells	6 6 .66 ✓		Plating, Sheathing, material and thickness ...	.26 - .30 where 2 1/2" O.P. ✓	
Thickness of Plating abreast Deck openings in way of Wells .....	.55 ✓		Bridge Deck.		
Thickness of Plating abreast Deck openings in way of Bridge .....	.48 ✓		Stringer Plate, breadth and thickness.....	73 .40 ✓	
Thickness of Plating within line of openings...	✓		Plating, Sheathing, material and thickness ...	.32 no sheathing ✓	
If Sheathed, material and thickness	✓		Forecastle Deck.		
Second Deck. aft.			Stringer Plate, breadth and thickness.....	35 .36 ✓	
Stringer Plate, breadth and thickness in Wells...	.40 - .34 ✓		Plating, Sheathing, material and thickness ...	.34 - .30 where 2 1/2" O.P. ✓	

SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? NO.		RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.		No. OF ROWS OF RIVETS.			
FLAT PLATE KEEL	1320	23 1/2 ✓	18 ✓	18 ✓		double	1 4	✓ 5-3	1 4	lapped	
" DBLG. (if any)		✓				✓					
BOTTOM PLATING, No. of Strakes .....3...		16 ✓	12 ✓	12 ✓		double	7/8 3 1/2	✓ 4-3	7/8 3 1/2	lapped	
BILGE PLATING, No. of Strakes .....1...		16 ✓	13 ✓	15 ✓		-u-	7/8 3 1/2	✓ 4-3	7/8 3	-u-	
SIDE PLATING, No. of Strakes .....2...		15 ✓	11 1/2 ✓	11 1/2 ✓		-u-	7/8 3 1/2	✓ 3	7/8 3	-u-	
UPPER DECK, Sheer-strake in Wells.....	1475/1650	26 23 1/2 ✓	11 1/2 ✓	11 1/2 ✓		-u-	1 4	✓ 5-3	1 1/8 5	-u-	
UPPER DECK, Sheer-strake in Bridge & at poop bulk.	1650	28 ✓	-	-		-u-	1 4	✓ 5	1 1/8 5	-u-	
STRAKE BELOW Sheer-strake in Wells.....	2160	18 ✓	11 1/2 ✓	11 1/2 ✓		-u-	7/8 3 1/2	✓ 4-3	7/8 3 1/2	-u-	
STRAKE BELOW Sheer-strake in Bridge ...	2160	18 ✓	-	-		-u-	7/8 3 1/2	✓ 4	7/8 3 1/2	-u-	
POOP SIDE PLATING				9 1/2 ✓		single	7/8 3 1/2	✓ 2	3/4 2 5/8	-u-	
BRIDGE SIDE PLATING ...		10 1/2 ✓				double	7/8 3 1/2	✓ 2	3/4 2 5/8	-u-	
FORECASTLE SIDE PLATING			10 1/2 ✓			single	3/4 3	✓ 1	3/4 2 5/8	-u-	

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c)	16 ✓
" Deck next below	✓
As per Rule	✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	✓			
STEM	Forging	250 x 65 1/2		✓
STERN FRAME { Propeller Post	Cast-Steel	shaped (as approved) ✓		
{ Rudder "				
Speed of Vessel.....		12 knots	✓	
RUDDER—Type.....				
A x D		66 7/8		See plan
Diam. of head		32 7/8		6-12-39
Mainpiece at top pintle	Cast steel			
" heel ...				
how constructed	double plate with a frame of part cast steel and part 15. N. steel welded together.			
double or single plate coupling, vertical or horizontal.....	horizontal.			

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper two decks	.50-41	9 x 3 1/2 x .44	2'-8 1/2"	Pl. 30" x .40" Face bar 6 x 3 1/2 x .42	Upper
" " Second				Pl. 30" x .40" Face bar 9 x 3 1/2 x .42	Lower
" " Third	.50-41	9 x 3 1/2 x .44	2'-8 1/2"	Pl. 24" x .40 Face bar 6 x 3 1/2 x .40	Upper
" " Holds				Pl. 24" x .40 Face bar 6 x 3 1/2 x .40	Lower
COLLISION (in Hold)	12-8	230 x 90 x 11 1/2	610	2 stringers 2' deck	
AFTER PEAK	8-6 1/2	150 x 75 x 10 1/2	610	Boiler platform One stringer	
	12-7 1/2	180 x 75 x 10 1/2	610		

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

Plates:—South Durham Steel & Iron Co. Ltd., and Appleby-Frodingham Steel Co. Ltd., and Dorman Long & Co. Ltd.

Profiles:—Dortmund-Hoerder Hüttenverein, and Colvilles Ltd., and The Steel Company of Scotland Ltd.

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

PARTICULARS OF LONGITUDINAL FRAMING.

FRAMING.		AMIDSHIPS.			ENDS.			Any Departure from Approved Plans to be Noted.	RIVETING.				
		In Ship.			In Ship.				Rivets in Longitudinal Frames.		Spacing of Rivets on each side of Transverses and Bulkheads.	Rivets in Brackets to Bulkheads.	
		Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		Diam.	Speng.		Number.	Diameter.
Framing of L, L or C													
Frames in Bridge 'tween Decks ...													
Frames from Uppermost Continuous Deck to centre No. 1		400	110	1 1/8 2 (6 off) ✓				app rd 17.4.4. 50/68 ✓	7/8	5 1/4	11 Rivets 3 spacing	18	7/8 ✓
" 2													
" 3													
" 4													
" 5													
" 6													
" 7													
" 8													
" 9													
" 10													
" 11													
" 12													
" 13													
" 14													
" 15													
" 16													
Spacing of Longitudinal Frames													
Amidships		32 1/2	✓										
At Ends													
Double Bottoms													
L, L or C													
Tank Top Longitudinals													
Bottom													
Spacing of Longitudinals													
Amidships													
At Ends													
Bottom - Transverses.													
Side (in 'tween Decks)													
Depth and Thickness													
Face Angles													
Lugs to Shell*													
Side (in Hold)													
Depth and Thickness		36	.42	✓									
Face Angles		5	3 1/2	.40 ✓									
Lugs to Shell*		6	6	.42 ✓									
Side (in 'tween Decks)													
Depth and Thickness		40	.44	✓									
Face Angles		6	3 1/2	.48 double ✓									
Lugs to Shell*		6	6	.44 ✓									
Bottom (in centre tanks)													
Lugs to Shell*		3 1/2	3 1/2	.44 ✓									
" " Back Bars													
Brackets													
Spacing of Transverse Frames													
* State if joggled or liners.													
Longitudinal Beams of L, L or C													
Bridge Deck													
Upper		8	3 1/2	.48 ✓				32 1/2					
Second													
Third													
Transverse Beams.													
Plate.													
Face Angles.													
Any Departure from Approved Plans to be Noted.													

The particulars of framing in peaks (if ordinary), Floors, Centre Girder, Side Girders and Margin Plate and their angle attachments, etc., to be entered in their respective places provided for on the Report Forms.

EQUIPMENT No 37762 ✓										LETTER A ✓		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.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.				
37615	1st Bower ...	65	1	14	✓	—	—	51	5	0	0	68.0.0	Byers improved stockless	—	Sunderland 15/10/37 J.H. Butler	
37616	2nd „ ...	65	2	0	✓	—	—	51	5	0	0	68.0.0	✓	—	— „ — „ —	
37617	3rd „ ...	65	1	0	✓	—	—	51	2	2	0	58.2.0	✓	—	— „ — „ —	
	Collective weight.	196	0	14	✓	—	—					194.2.0	✓			
50966	Stream	19	0	24	✓	4	3	6	20	1	3	14	19.0.0	✓	Tan stock	Cradley Heath 14/10/37 S.C. Paul

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.	Stations.	Break-ing.	Supplied.	Per Rule.			Length.	Diam.					Length.	Ins.		Length.	Ins.	Length.	Ins.
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
19780	240	2 5/16	96 1/4	134 3/4	635.2.0	✓	720.3.0	✓	270	2 5/16	stud link	Mumm. W. & Co. Ltd.	Sunderl. 17 3/8 38	J.H. Butler	TOWLINE...	120	4 3/4	64.6	120	4 3/4
19770	15 1/3	2 5/16	"	"	42.2.7	✓					- -	- -	- -	4 1/2 38 - -	HAWSERS & WARPS }	2x90	3 1/4	21.7	2x90	2 3/4
19777	15 1/3	2 5/16	"	"	42.3.7	✓					- -	- -	- -	8 1/2 38 - -			2x90	3	18.6	2x90	2 1/2
Iron Stream Chain or Steel Wire	90	5		52.8	720.3.14	✓			90	5	6x12	Halls Barton Ropery Co. Ltd.	Hull 4-3-38							

Steering Gear, Type (Power or hand) John Warrie & Co. Alternative Means of Steering approved arrangement with wires & blocks worked by the warping winch.

Steering Chains (Size and Test) ✓ Windlass Emmerson Walker (steam) Boats 4 @ 23'-0" x 7'-6" x 2'-9"
1 @ 18'-0" x 3'-11" x 2'-6" duff

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

Cargo Hatchways. (Upper Deck) 1130 x 900 x 760 2 high with 10 2 cross beams thickness of battens 2740 x 3040 x 760 2 high x 10 2 thick

Size of Hatchways No. 1 (Fwd.) ✓ No. 2 ✓ No. 3 ✓ No. 4 ✓ No. 5 ✓ No. 6 ✓

Number of Shifting Beams and/or Fore and Afters ✓

Builder's Signature S. Sandersen
 ODENSE STAALSKIBSVÆRFT
 NIELSEN & MØLLER

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 yes
 (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo is a tanker 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).

Vessel fitted for carrying oil fuel in double bottom, in cross bunkers and in deep tanks. F.P. of oils above 150° F. also requirements of sec. 20 of the Rules complied with. ✓
 The vessel has been built in accordance with the approved plans, the Society's Rules, the Secretary's letters and to my satisfaction. ✓
 The material and workmanship employed during construction of the vessel are of good quality. ✓
 The vessel is intended to carry petroleum in bulk and all the cargo tanks, oil fuel- and lub. oil- tanks, cofferdams, deep tanks, double bottom tanks, peak tanks, F.W.- and feed water tanks have been tested according to the Rules and found tight. ✓
 Windlass and steering arrangements tried and found satisfactory. ✓
 The fuelboard have been marked on the vessels side, cut in and verified.

The amount of Entry FeeK.£ : 224.00 Fees applied for, (Special notations, where part of class, to be stated.)
 Fuelboard Fee K. 380.80 15.6 19 38
 Special Survey Fee. K.£ 11.942.00 Received by me, I am of opinion the Vessel should be Classed +100 A1
 L.F.'s K. 120.00 28.6 19 38 carrying petroleum in bulk ✓
 Travelling Expenses, if any 1.140.05 28.6 19 38

State whether the Vessel has been built under Special Survey yes ✓ Signature S. Sandersen
 Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to Surveyor office, Copenhagen Date of issue 29/6/38
MAST Amsterdam FRI. 24 JUN 1938
 Committee's Minute + 100 A1
 Character assigned Carrying petroleum in bulk
Lloyd's Assoc. + Lmb 5.38
Mike 2.8.180 A
Armed Oil
 Lloyd's Register Foundation

The Surveyor is requested not to write on or below the Committee's Minute.

W191-02665

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.)

PARTICULARS OF ELECTRIC WELDING (if employed)

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

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

1st Bower 38.0.0 *JD* 1405 24-6-37
2nd „ 38.0.12 *JD* 1424 13-8-37
3rd „ 37.3.12 *JD* 1418 16-8-37

shank
aged

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 86.7 ft., R.Q.D. ☒ ft., Bridge 37.95 ft., Forecastle 51.2 ft.
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

Official No. 166454

Signal Letters G J G R

Extreme Breadth over Belting (Circ. 1611)

Over-all Length 446'-3 1/2" ☒
(Circ. 1703)

No. and Material of Decks 1 dh (SH.) ☒

Parts of Bottom of Vessel coated with cement or approved composition *no*

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, <i>p. 10-40</i>	<i>65.6</i>	<i>131.8</i>	Fore peak tank, <i>p. 160- stem</i>	<i>23.1</i>	<i>103.0</i>
Double bottom, under Engines and Boilers,			After peak tank, <i>p. 0-8</i>	<i>16.0</i>	<i>54.9</i>
Double bottom, if under Engines only,			Deep tank, aft, <i>Crosshunks</i>	<i>7.6</i>	<i>267.0</i>
Double bottom, if under Boilers only,			Deep tank, forward, <i>p. 40-43</i>	<i>24.75</i>	<i>257.4</i>
Double bottom, forward,			Other tanks, if fitted, <i>setting tanks above crosshunks</i>	<i>7.6</i>	<i>52.0</i>
Total length (if continuous) and Capacity			(If necessary, furnish further information by sketch.)		

Order for Special Survey No. 116

Date 3-4-37.

Dates of Surveys held while building

1937. 14/10 19/10 27/10 1/11 2/11 5/11 12/11 19/11 23/11 26/11 9/12 15/12 20/12
1938. 4/1 11/1 (2) 26/1 28/1 8/2 11/2 18/2 22/2 25/2 1/3 3/3 4/3 (2) 8/3 10/3 11/3 15/3 18/3 19/3 22/3 25/3 29/3
5/4 (2) 9/4 20/4 28/4 3/5 10/5 (2) 24/5 25/5 28/5

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Total No. of Visits 47