

Rpt. 1
RECEIVED

2 JUN 1949

IN D.O.

SECTION

No. 85

STEEL STEAMER MOTORSHIP.

Received at London Office

JUN 1949

SECTION

No. 85

State if Report has been sent on the Freeboard of the Vessel.

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

Date of completion of report 14th May 1949 Port of GLASGOW No. 74046Survey held at GLASGOW Date First Survey 17th January 1949 Last Survey 26th April 1949.

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Single Screw Oil Tanker "WAVE MONARCH" Machinery aft

State Type (Full Spinning, Complete Superstructure with or without Damage Openings) Full Scantling State Type of Erections Poop, Bridge & Tels.

TONNAGE under Tonnage Deck 7016 CLASS 100 A.1. State if with freeboard as condition of Class Built at Glasgow

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) L 465'-0" Launched July 1944 Yard No. 1223^G

Total Breadth (greatest moulded) B 64'-0" Builders Harland & Wolff Ltd.

Gross Tonnage 8159 Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 35'-6" Owners The Admiralty

Register Tonnage 4545 1st Longitudinal Number (L x D) 16507.5 Managers (Where necessary to be entered in Reg. Book)

REGISTERED DIMENSIONS. FEET Framing Depth "d," at middle of length. See Sec. 3 (1d) 13'-10" Residence

Length 473.8 Proportions—Depth to Length—Uppermost continuous deck to top of keel 13.10 Port of Registry London

Breadth 64.3 Do. Long Bridge to top of keel If surveyed while building, afloat, or in dry dock

Depth 35.4 Draught Moulded 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.
FRAMES, Spacing amidships.....	33" ^{E.R.} 30" X		Bracket Floors, Frame	✓	
" " from 1/2 length amidships to Collision bulkhead.....	33" 27" X		" " Reversed Frame.....	✓	
" " in peaks	24" X		" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	M.S. 47" 54" 52" X	
Frame Amidships, Angle, E or F	11" 3 1/2" 44" X		" " top Angles	Double 3 1/2" 3 1/2" 48" X	
" " Extends up to	upper deck X		" " bottom Angles.....	Double 4" 4" 56" X	
Reversed Frame Amidships, Angle	✓		Side Girders, No. each side and thickness.....	2 at 42" X	
" " Extends up to	✓		Margin Plate depth (excl. of flange) and thickness		
Depth of Framing Girder.....	✓		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	Tank top level.	
Frames in Uppermost Continuous (tween) Poop Decks, Angle, E or F	7" 3 1/2" 38" X		" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	50 margin angle in Machinery space. X	
" " Second 'tween Decks, Angle, E or F	scantled to main frame ✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem.....		
" " Third " " " " " "	✓		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area		
" " from 1/2 len. for'd. to 15% len. from Stem	9" 3 1/2" 38" X		Tank Side Brackets, height above base line in M.S. at toe of Frame and thickness	3'-0" 144" above Tank top. X	
" " in Peaks, Angle or F	7/8" at 4 1/8" X		INNER BOTTOM PLATING. M.S. ✓		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	Yes. X		Breadth and thickness of Middle Line Strake.....	52" X	
State if Frame Joggled.....	Yes. X		Thickness of remainder in Hold M.S. ✓	52" X	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	Yes. X		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 X	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	Yes X		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, E or F	Longitudinal beams. X	
Floors, Depth and thickness at mid-line in Holds.....	48" x 40" X		" " in way of Bridge, Angle, E or F		
Height of Brackets at side above base line at toe of frame.....	52" 301		Spacing		
Middle Line Keelson, on Floors, Angle, E or F	48" x 42" X		Upper Second Deck, amidships, Angle, E or F	9" 3 1/2" 40" 8 3/2" 38" X	
" " in Cargo Tanks. E or F	48" x 42" X		Spacing		
" " Through Plate or Inter-costal Plate	3 1/2" 3 1/2" 42" X double X		Upper Third Deck, amidships, Angle, E or F	8" 3 1/2" 40" X	
" " Foundation Plate on Floors	4" 4" 59" X double. ✓		Spacing		
" " Flat Plate Keel Angles	40" and aft		Fourth Deck, amidships, Angle, E or F	7" 3" 40" X	
Side Keelsons, No. each side.....	Bulkheads (P. & S.) X		Spacing	27" X	
" " thickness of Inter-costal Plate.....			Poop Deck, Angle, E or F	9" 3 1/2" 38" X	
" " Angles			Spacing	every. X	
DOUBLE BOTTOM. IN ENGINE ROOM. ✓			Bridge Deck, Angle, E or F	Longitudinal beams. X	
Solid Floors, thickness and spacing	42" at 30" X		Spacing		
" " Are Frame and Reversed Frame joggled?	Frames only. X		Forecastle Deck, Angle, E or F	9" 3 1/2" 38" 7 3/2" 34" X	
Bracket Floors, breadth and thickness at middle line	✓		Spacing	every. X	
" " breadth and thickness at margin plate.....	✓				

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		Longitudinal Bulkheads	✓	Stringer Plate, breadth and thickness in way of Bridge		38" (✓)	(✓) under hatch
" 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			
" " " " " "				If Sheathed, material and thickness			
Longitudinal Center Line Bulkhead. Stiffeners and Spacing		Bulk plate	12" x 45" ✓	Third Deck.		✓	
Plating, thickness of			43" ✓	Stringer Plate, breadth and thickness		✓	
STRINGERS AND DECKS.				If Plated, state thickness		✓	
Uppermost Continuous Deck.				Fourth Deck.		✓	
Stringer Plate, breadth and thickness in Wells		92	80" ✓	Stringer Plate, breadth and thickness		✓	
At break of Poop and " " " " in way of Bridge			96" ✓	If Plated, state thickness		✓	
" " " " " "		6"	6" 80" ✓	Poop Deck.		38" ✓	
" Angle in Wells			74" ✓	Stringer Plate, breadth and thickness		30" ✓	
Thickness of Plating abreast Deck openings in way of Wells			74" ✓	Plating, Sheathing, material and thickness		26" ✓	
Thickness of Plating abreast Deck openings in way of Bridge		no openings	✓	Bridge Deck.		75 38" ✓	
Thickness of Plating within line of openings		64" (p) 74" (s)	✓	Stringer Plate, breadth and thickness		34" ✓	
If Sheathed, material and thickness		none	✓	Plating, Sheathing, material and thickness		38" ✓	
Second Deck. O.T. FLAT FORWARD.			38" ✓	Forecastle Deck.		36" ✓	
Stringer Plate, breadth and thickness in Wells				Stringer Plate, breadth and thickness		50" ✓	under windows
				Plating, Sheathing, material and thickness			

SHELL PLATING.

SCANTLINGS.						RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED,	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if joggled?	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.			SINGLE OR DOUBLE.	Diam.		Spacing cr. to cr.	Diam.		Spacing cr. to cr.
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
Flat Plate Keel..... A	.53½	1.00 X	.84 X	.84 X		Double	1⅞"	4½"			Welded ✓		
Bottom Plating B { C D		.76 X	.51 X	.54 X		B. -	¾"	3½"			"		
" Dbg. (if any)76 X	.51 X	.55 X		C. -	"	"			"		
Bottom Plating No. of Strakes E		.76 X	.63	stealer ✓		D. "	"	"			"		
Bilge Plating No. of Strakes F		.72 X	.51 X	.56 X		E. "	"	"			"		
G				.50 X		F. "	"	"			"		
Side Plating No. of Strakes H J		.66 X	.48 X	.48 X		G. "	"	"			"		
J		.92 added				H. "	"	"			"		
Upper Deck Sheer-strake in Wells L .81		.90 X	.48 X	.48 X		I. "	"	"			"		
L		1-10 at Bridge Endo. X				K. " [circled]	"	"			"		
Upper Deck Sheer-strake in Bridge ...		1-10 at Poop Break. X				L. "	"	"			"		
Strake below Sheer-strake in Wells K .81		.72 X	.48 X	.48 X		Bridge Side Plating carried down to Deck.					"		
K		.72 X				Double	1"	4" X ↓			"		
Strake below Sheer-strake in Bridge50 P.F. X		"	1⅛"	4½" X ↓			"		
Poop Side Plating40 X		Single ✓	¾"	X ○			"		
Bridge Side Plating....		.44 X				One Strake ✓					"		
Forecastle Side Plating				.44 X		Single	¾"	3½" X			"		

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—
Extending to Upper Deck (Sec. 3 c) 15 to upper deck. ✓
Deck next below _____
As per Rule _____

		STIFFENERS.				
		Plating Thickness.	VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
O.T.	WING TANKS. ✓	✓	✓	✓	✓	✓
MIDSHIP	BULKH'D, Upper two deck	✓	✓	✓	✓	✓
"	CENTRE	✓	✓	✓	✓	✓
"	Second	✓	✓	✓	✓	✓
"	Third	✓	✓	✓	✓	✓
"	Holds	✓	✓	✓	✓	✓
COLLISION	(in Hold)	✓	✓	✓	✓	✓
AFTER PEAK		✓	✓	✓	✓	✓

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Depart from Approved Plans to be Noted.
KEEL, Bar	Flat plate.			
STEM	$10\frac{1}{2} \times 2\frac{3}{4}$			
STERN FRAME	Propeller Post Rudder	CAST STEEL 13" x 7" 1 1/2" RAD.		
Speed of Vessel	15 knots.			
RUDDER—Type	Double plate Stream Lined			
" A x D	688.5			
" Diam. of head	Forged 13 3/4" dia.			
" Mainpiece at top pintle	Forged 13 3/4" "			
" heel	Steel 13 1/2" "			
" how constructed	Built up + F.W.			
" double or single plate coupling, vertical or horizontal	Double .75" dia 6" x 14" dia fitted bolts.			
		Stem Post	Rudder Post	Rudder Head

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

Lloyd's Register
Foundation

PARTICULARS OF LONGITUDINAL FRAMING.

JUN 1940

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. Inches.	Rivets in Brackets to Bulkheads.	
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.		Diam.	Speng.		Number.	Diameter.
ming of $\overline{L}, \overline{L} \text{ or } \overline{C}$												
mes in Bridge 'tween Decks 5	7"	3"	$\frac{3}{8}$ "									
mes from Uppermost Continuous Deck Centre	No. 1	17"	50"	44"	68"	17"	50"	44"	68"			
Bent Tank	" 2	"	"	"	"	"						
" 3	"	"	"	"	"	"						
" 4		Longitudinal Bulkhead.										
" 5	" 5	17"	50"	44"	68"	17"	50"	44"	68"			
Wing Tanks	" 6	"	"	"	"	"						
" 7	" 7	"	"	"	"	"						
" 8	" 8	12"	$3\frac{1}{2}$ "	50"	12"	$3\frac{1}{2}$ "	50"					
" 9	" 9											
" 10	" 10											
" 11	" 11											
" 12	" 12											
" 13	" 13											
" 14	" 14											
" 15	" 15											
" 16	" 16											
Spacing of Longitudinal Frames	Amidships	33"					33"					
	At Ends	In Centre Wing Tanks			In Centre Wing Tanks.							
Tank Top Longitudinals												
Bottom												
Longitudinals	Amidships											
	At ends...											
Transverses.												
Depth and Thickness												
Face Angles												
Lugs to Shell*												
Depth and Thickness		48"	44"		48"	44"						
Face Angles		6"	$3\frac{1}{2}$ "	62"	6"	$3\frac{1}{2}$ "	62"					
Lugs to Shell*		6"	6"	44"	6"	6"	44"	joggled				
Depth and Thickness		45"	44"		45"	44"						
Face Angles		6"	$3\frac{1}{2}$ "	64"	6"	$3\frac{1}{2}$ "	64"					
Lugs to Shell*		6"	6"	44"	6"	6"	44"	joggled				
Back Bars		$3\frac{1}{2}$ "	$3\frac{1}{2}$ "	44"	$3\frac{1}{2}$ "	$3\frac{1}{2}$ "	44"					
Brackets												
Spacing of Transverse Frames...												
* State if joggled or liners.												
Bridge Deck		6"	3"	34"				Spacing.	36" + 33"			
Upper		9"	$3\frac{1}{2}$ "	44"	9"	$3\frac{1}{2}$ "	44"		33"			
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, &c., to be entered in their respective places provided for on the Report Forms.

NOTE.—This slip to be pasted on the fourth page of the Report, and reference to same to be made under framing, &c., on the first page.

EQUIPMENT No.

LETTER

ANCHORS.

JUN 1949

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.	lbs.			
46428	1st Bower	82	0	21	3	0	0	60	0	0	0	81 1/4		Byers Improved Type	✓	L.P.H.S. 14-9-44. F.W. Dovey
46429	2nd "	82	0	0	"	0	0	59	10	0	0	81 1/4		"	✓	L.P.H.S. 14-9-44. F.W. Dovey
46790	3rd "	69	3	0	"	0	0	53	12	2	0	69 1/2		"	✓	L.P.H.S. 10-12-45. F.W. Dovey
	Collective weight	233	3	21								239				
2594	Stream	23	2	14	6	0	0					23 1/2		Ordinary Jugged N.I.	S. Taylor & Sons. Brierley Hill.	L.P.H.N. 28-8-44. J.A. Relf

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.	Statutory.	Breaking.	Supplied.	Per Rule.		Length.	Diam.					Length.	Cir.		Length.	Cir.
8752	300	2 3/16	120-6	68-7	763-0-7.			300	2 3/16	Jayco Ltd.	S. Taylor & Sons. Brierley Hill.	L.P.H.N. 13-6-44. S. Collins	TOWLINE	130	5 1/2	84-4	130	5 1/2
													HAWSERS & WARPS	4/100	2 3/4	15-2	4/100	2 3/4
Iron Stream Chain or Steel Wire	120	4 3/4		64-6				120	4 3/4									

Steering Gear, Type (Power or hand) Steam. Donkin & Co. Ltd. Telemotor Gear. Alternative Means of Steering Blocks & Tackle.Steering Chains (Size and Test) ✓ Windlass Blake Chapman. Boats 4 at 28'-0". 2 motor.Ceiling in Holds, thickness and material none. Cargo Battens, thickness, material and spacing none.Cargo Hatchways.—(Upper Deck) Steel plates & angles at No. 1. Steel plate coverings at oil hatches. Thickness of Hatches Steel covers.Size of Hatchways No. 1 (Fwd.) 9'-0" x 12'-0" No. 2 Oil hatches 4'-0" dia. No. 3 - No. 4 - No. 5 - No. 6 -Number of Shifting Beams and/or Fore and Afters ✓

Builder's Signature

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 ✓ 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 was originally built under special supervision of Surveyors to British Liquefaction and classed with that Society ✓

The scantlings and arrangements have been examined and found in accordance with approved plans. ✓

The Special Survey for classification has been carried out. ✓

The vessel's condition and standard of workmanship are considered good and satisfactory. ✓

The keelboard markings have been cut in and verified. ✓

Oil fuel is carried in oil bunkers aft, settling tanks, forward deep tanks, deep tank aft, double bottom tank under engines. ✓

The amount of Entry Fee..... £ : : Fees applied for,
 Special Survey Fee..... £ : : 19
 Travelling Expenses, if any..... £ : : 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.
Carrying petroleum in Bulk. Slang. panning at bottom and at deck. Fitted for Oil Fuel F.P. above 150°F.

Signature James Fleming.
 Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to GLASGOW Date of issue 3/1/49

Committee's Minute GLASGOW 31 MAY 1949

Character, assigned. See Report 8



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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.)

List of Plans

Profile and Deck plan. } approved.
Midship Section. }

The following plans are also forwarded.

Shell Expansion.
Framing Plan.
O.T. Bulkheads.
Rudder.

PARTICULARS OF ELECTRIC WELDING (if employed) Rudder, all shell & upper deck butts, fore deck butts, poop and bridge deck butts & seams, stringers to bulkheads & side shell, bulkhead stiffeners, longitudinal and transverse bulkheads to shell and deck. E.R. and S.R. tank tops.

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

Carrying Petroleum in Bulk; Longitudinal framing at bottom and at deck;
Cruiser Stern; Wireless; Direction Finder; Echo Sounding Device;
Machinery aft; Gyro-Compass; Fitted for Oil Fuel F.P. above 150°F.

RADAR Equipment (State if fitted) Yes

State Type or Pattern No. 271 a.

State Name of Maker and/or Supplier The Admiralty.

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

1st Bower	51-0-11	G.H.B.	334	14-9-44	X
2nd "	49-0-27	G.H.B.	375	14-9-44	X
3rd "	45-0-21	J.H.J.	7229	2-11-45	X

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 122 ft., R.Q.D. ft., Bridge 44 ft., Forecastle 48-75 ft.

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

Official No. 169962 Signal Letters G.J.K.A. Extreme Breadth over Belting 7' 3" Over-all Length 492'-4 1/2" (Circ. 1611) (Circ. 1703)

No. and Material of Decks 1 OK. (Stl.)

Parts of Bottom of Vessel coated with cement or approved composition Cement in fore and aft peaks and E.R. Well.

Particulars of composition (if fitted) and of approval to upper decks.

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. S.W. Tons.	Where Fitted.	Length. Feet.	Water Capacity. S.W. Tons.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only, O.F. OVERFLOW FEED	22.5	46	Deep tank, aft,	23.0	60
Double bottom, if under Boilers only, B.R. DEEP	10.0	13	Deep tank, forward,	16.0	123
Double bottom, forward,	27.5	294	Other tanks, if fitted, Tank in w. of tunnel	22.5	155
Cofferdams	15.0	294		49.5	809
Total length (if continuous) and Capacity	47.5	59		27.5	294

Order for Special Survey No.

Date

Dates of Surveys held while building



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