

STEEL ~~STEAMER~~ OR MOTORSHIP.

Received at London Office

30 NOV 1942

State if Report has been sent on the Freeboard of the Vessel *yes*State if Report is sent on the Machinery of the Vessel *from Rmc.*Date of completion of report *28th November 1942* Port of *Sunderland* No. *33544*Survey held at *Sunderland* Date First Survey *22 January* Last Survey *23rd November 1942*On the (State if Machinery fitted Aft and of Single, Twin or Triple Screw) *MV. EMPIRE CAVALIER, Single Screw, Machinery aft.*State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Full Scantling* State Type of Erections *Prop. & Ck.*TONNAGE under Tonnage Deck ... *8905.54*Do. of space or spaces between Tonnage Dk. and Upper Dk. *✓*Total *✓*Gross Tonnage *9890.72*Register Tonnage *5911.81*CLASS *+100A.1* State if with freeboard as condition of Class *No*Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) *1475-0"*Breadth (greatest moulded) *B 68-0"*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 36-0"*1st Longitudinal Number (L x D) *=*2nd Numeral L x (B + D) *=*Framing Depth "d," at middle of length. See Sec. 3 (1d) *✓*Proportions—Depth to Length—Uppermost continuous deck to top of keel *✓*Do. Long Bridge to top of keel *✓*Draught Moulded *27-11³/₄"*Built at *Sunderland*Launched *27.8.42.* Yard No. *743*Builders *Sir James Laing & Sons Ltd.*Owners *Ministry of War Transport*Managers *Mungo Campbell & Co.*
(Where necessary to be entered in Reg. Book)Residence *✓*Port of Registry *Sunderland*If surveyed while building, afloat, or in dry dock *YES.*

REGISTERED DIMENSIONS.

FEET

*482.7**68.3**36.15*

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.....	<i>✓</i>		Bracket Floors, Frame	<i>✓</i>	
" " from $\frac{1}{2}$ length amidships to Collision bulkhead.....	<i>✓</i>		" " Reversed Frame.....	<i>✓</i>	
" " in peaks.....	<i>AP. 24 x 25</i> <i>FP. 24</i>		" " Vertical Struts	<i>✓</i>	
E FRAMING. <i>fitted longitudinally.</i>	<i>✓</i>		Centre Girder, depth and thickness amidships.....	<i>62$\frac{1}{2}$ x 50 x 46</i>	
Frame Amidships, Angle, [or]	<i>✓</i>		" " top Angles	<i>3$\frac{1}{2}$ x 3$\frac{1}{2}$ x 7/16</i>	
" " Extends up to.....	<i>✓</i>		" " bottom Angle.....	<i>6 x 6 x 2</i>	
Reversed Frame Amidships, Angle	<i>✓</i>		Side Girders, No. each side and thickness.....	<i>✓</i>	<i>see plan</i>
" " Extends up to	<i>✓</i>		Margin Plate depth (excl. of flange) and thickness	<i>✓</i>	
Depth of Framing Girder.....	<i>✓</i>		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	<i>✓</i>	
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	<i>✓</i>		" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area	<i>✓</i>	
" " Second 'tween Decks, Angle, [or]	<i>✓</i>		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	<i>✓</i>	
" " Third	<i>✓</i>		" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area	<i>✓</i>	
" " from $\frac{1}{2}$ len. for'd. to 15% len. from Stem	<i>AP. 9 x 3$\frac{1}{2}$ x 7/16</i> <i>FP. 9 x 3$\frac{1}{2}$ x 3/8</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>✓</i>	
" " in Peaks, Angle or [.....	<i>✓</i>		INNER BOTTOM PLATING.	<i>52 x 46</i>	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>✓</i>		Breadth and thickness of Middle Line Strake.....	<i>✓</i>	
State if Frame Joggled.....	<i>✓</i>		Thickness of remainder in Holds	<i>✓</i>	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	<i>YES</i>	<i>✓</i>	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?	<i>✓</i>	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	<i>YES</i>	<i>✓</i>	BEAMS. <i>Longitudinal.</i>		
DOUBLE BOTTOM. in Centre Tanks.			Uppermost Continuous Deck, amidships in Wells, Angle, [or]	<i>✓</i>	
Floors, Depth and thickness at mid-line in Holds.....	<i>✓</i>		" " in way of Bridge, Angle, [or]	<i>✓</i>	
Height of Brackets at side above base line at toe of frame.....	<i>✓</i>		" " Spacing	<i>✓</i>	
Middle Line Keelson, on Floors, Angles, <i>E or F</i>	<i>6 x 3$\frac{1}{2}$ x 40</i>	<i>✓</i>	Second Deck, amidships, Angle, [or]	<i>✓</i>	
" " Through Plate or Inter-costal Plate	<i>42</i>	<i>✓</i>	" " Spacing	<i>✓</i>	
" " Foundation Plate on Floors	<i>✓</i>		Third Deck, amidships, Angle, [or]	<i>✓</i>	
" " Flat Plate Keel Angles	<i>6 x 6 x 60</i>	<i>✓</i>	" " Spacing	<i>✓</i>	
Side Keelsons, No. each side.....	<i>✓</i>		Fourth Deck, amidships, Angle, [or]	<i>✓</i>	
" " thickness of Intercoastal Plate.....	<i>✓</i>		" " Spacing	<i>✓</i>	
" " Angles	<i>✓</i>		Poop Deck, Angle, <i>E</i> or <i>F</i>	<i>7 x 3 x 3/8</i>	<i>as app'd</i>
DOUBLE BOTTOM. <i>Aft.</i>			" " Spacing	<i>every</i>	
Solid Floors, thickness and spacing	<i>44 x 10 x 4</i>		Bridge Deck, Angle, [or]	<i>✓</i>	
" " Are Frame and Reversed Frame joggled?	<i>YES</i>	<i>✓</i>	" " Spacing	<i>✓</i>	
Bracket Floors, breadth and thickness at middle line	<i>✓</i>		Forecastle Deck, Angle, <i>E</i> or <i>F</i>	<i>6 x 3$\frac{1}{2}$ x 5/16</i>	
" " breadth and thickness at margin plate.....	<i>✓</i>		" " Spacing	<i>every</i>	

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...		✓	
2 Longh Centre Line Bulkheads Stiffeners and Spacing		9 x 3 1/2 x 46 to 6 x 3 x 34	✓	If Sheathed, material and thickness.....		✓	
Plating, thickness of50 - 36	✓	Third Deck. Stringer Plate, breadth and thickness.....		✓	
STRINGERS AND DECKS. Uppermost Continuous Deck. Stringer Plate, breadth and thickness in Wells		87 x 82	✓	If Plated, state thickness		✓	
" " " " " in way of Bridge		✓		Fourth Deck. Stringer Plate, breadth and thickness.....		✓	
" Angle in Wells		8 x 8 x 82	✓	If Plated, state thickness.....		✓	
Thickness of Plating abreast Deck openings in way of Wells		76 x 66	✓	Poop Deck. Stringer Plate, breadth and thickness.....		39 x 38	✓
Thickness of Plating abreast Deck openings in way of Bridge.....		✓		Plating, Sheathing, material and thickness28 - .24	✓
Thickness of Plating within line of openings...		✓		Bridge Deck. Stringer Plate, breadth and thickness.....		✓	
If Sheathed, material and thickness.....		✓		Plating, Sheathing, material and thickness ...		✓	
Second Deck. Stringer Plate, breadth and thickness in Wells		✓		Forecastle Deck. Stringer Plate, breadth and thickness.....		36 x 41	✓
				Plating, Sheathing, material and thickness...		.27	✓

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.	No. of ROWS of RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.						Diam.	Spacing cr. to cr.		
													Diam.
Inches.	Inches.	Inches.	Inches.		SINGLE OR DOUBLE.	Inches.	Inches.		Inches.	Inches.			
Flat Plate Keel.....	54	1.00	1.00	.86		D	1 1/8	4 1/2	3	1 1/8	4 1/2	DOUBLE STRAPS.	
„ Dblg. (if any)		✓											
Bottom Plating, No. of Strakes <i>A, B, C, D.</i>		.76	.87	.52		D	1	4	5	1	4 1/2	L	
Bilge Plating, No. of Strakes <i>E.</i>		.76	✓	✓		D	1 1/8	4 1/2	5	1	4 1/2	L	
Side Plating, No. of Strakes <i>F, G, H.</i>		.64	.48	.48		D	7/8	3 1/2	3	7/8	3 1/8	L	
Upper Deck, Sheer- strake <i>in Walls.</i>	72 1/2	1.00	.46	.46		D	1	4	3	1 1/8	4 1/2	DOUBLE STRAPS.	
Upper Deck, Sheer- strake in Bridge ...		✓											
Strake below Sheer- strake <i>in Walls.</i>		.77	.46	.46		D	1 1/8	4 1/2	4	1	4	L	
Strake below Sheer- strake in Bridge ...		✓											
Poop Side Plating.....		✓	✓	.42		S	7/8	3 1/2	2	3/4	2 5/8	L	
Bridge Side Plating.....		✓	✓	✓									
Forecastle Side Plating		✓	.46	✓		S	7/8	3 1/2	2	3/4	2 5/8	L	

WATERTIGHT BULKHEADS.

FORGINGS AND CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—		Casting or Forging.		Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
Extending to Upper Deck (Sec. 3 c) 13						
,, Deck next below ✓						
As per Rule ✓						
		STIFFENERS.				
		Plating Thickness.	VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D,	CENTRE TANKS	56'-38"	12x3½x45L	36"	2 GIRDERS 42x40"	42x40"
	WING TANKS	56'-38"	do.	do.	2 GIRDERS 36x40"	36x40"
	Second				F. ANGLES 6" x 10"	6" x 10"
	Third	✓				
	Holds	✓				
COLLISION	(in Hold)	55'-31"	7x3x30L	36"	D. TANK TOP PL	
AFTER PEAK		46'-32"	7x3x33L	30"	S.B. BEAMS.	
					FLAT 9	
					2 S.B. BEAMS.	
STEEL.		Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture).				
		Dorman Long, Consett, South Durham, Appleby, Frodingham, Cargo Fleet, Steel Co. of Scotland				
		Has the Steel been tested as required by the Rules? YES.				
		KEEL, Bar				
		STEM				
		STERN FRAME				
		Propeller Post				
		Rudder				
		Speed of Vessel				
		RUDDER—Type				
		A x D				
		Diam. of head				
		Mainpiece at top pintle				
		heel				
		how constructed				
		double or single plate				
		coupling, vertical or horizontal				
		open hearth				
		Cargo Fleet				
		Lloyd's Register				

M.V. *Empire Cavalier* PARTICULARS OF LONGITUDINAL FRAMING.

30 NOV 1942

SUNDERLAND, N^o 33544

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.
Framing of L, L or C													
Frames in Bridge 'tween Decks ...													
Frames from Uppermost Continuous Deck	No. 1	7	3 1/2	40				App ^d 41	1	6	throughout		
	" 2	do.							7/8	5 1/4	do.		
	" 3	do.							do.	do.			
	" 4	7	3 1/2	43					do.	do.			
	" 5	8	3 1/2	36					do.	do.			
	" 6	do.							do.	8 Rivs @ 4"			
	" 7	8	3 1/2	44					do.	do.			
	" 8	9	3 1/2	37					do.	do.			
	" 9	do.							do.	do.			
	" 10	9	3 1/2	41					do.	8 Rivs @ 3 1/8"			
	" 11	10	3 1/2	40					do.	do.			
	" 12	11	3 1/2	43				App ^d 40	do.	do.			
	" 13	12	3 1/2	3 1/2	42	50			do.	do.			
	" 14	✓							do.	do.			
	" 15	✓											
	" 16	✓											
Spacing of Longitudinal Frames	Amidships	30"	as app ^d										
	At Ends	✓											
Double Bottoms	Tank Top Longitudinals	✓											
X, L or C	Bottom	15	4	4	41	62			7/8	5 1/4	9 Rivs 3 1/8 @ 8-11" spacing		
Spacing of Longitudinals	Amidships	36"									7 Rivs 3 1/8 @ 7-2" spacing		
	At Ends	✓									Rivs 4" Joid Bld. 78.		
BOTTOM Transverses.													
CENTRE	Depth and Thickness	48	4	6									
Side TANKS (in 'tween Decks)	Face Angles	9	3 1/2	46	8	0 1/2							
	Lugs to Shell*	6	6	46	inter								
WING TANKS.	Depth and Thickness	36	4	4									
Side (in Hold)	Face Angles	6	3 1/2	40	O.A.								
	Lugs to Shell*	6	6	44	inter								
SIDE TRANSVERSES	Depth and Thickness	36	4	4									
Bottom	Face Angles	6	3 1/2	48	O.A.								
	Lugs to Shell*	6	6	44	inter								
	Back Bars	✓											
	Brackets	✓											
Spacing of Transverse Frames		See plan											
* State if joggled or liners.													
Longitudinal Beams of X, L or X	Bridge Deck	✓						Spacing.					
	Upper	8	3 1/2	35					✓				
	Second	✓											
	Third	✓											
Transverse Beams.													
	Plate.	✓											
	Face Angles.	27	40	5	3 1/2	40							
	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.				LETTER <i>27</i>				ANCHORS.			
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			Where and when tested, and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.
27160	1st Bower	86	0	0	61	10	0	0	85½		
27161	2nd "	85	3	14	61	10	0	0	85½		
	3rd "	43	3	0					43 ½		
	Collective weight	214	5	14					214 ½		
55283	Stream	25	2	0	6	1	22	25	3	3	0

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.	
	Fathoms.	Diam.	Stator.	Break.	Supplied.	Per Rule.		Fathoms.	Diam.					Fathoms.	Ins.		Fathoms.	Ins.
18808	180	2 1/2	116	10	163 3/4	607	0	0	989	300	2 1/2	Link	LPHLW 17.10.42 AG	130	5 1/4	77 1/2	130	5 1/4
116537	152	do.	do.	do.	50	2	7						LPHLW 19.9.42 JAR					
116538	15	do.	do.	do.	47	3	19						do.					
116539	152	do.	do.	do.	49	2	11						do.					
116540	15	do.	do.	do.	48	0	0						do.					
Iron Stream Chain or Steel Wire	120	4 1/2			58.6													

Steering Gear, Type (Power or hand)

Hastie

Alternative Means of Steering

Auxiliary Block & Tackle

Steering Chains (Size and Test)

Telemotor

Windlass

Black & Chapman

Boats

*2-24' motorboats
2-24' lifeboats
(all of steel)*

Ceiling in Holds, thickness and material

✓

Cargo Battens, thickness, material and spacing

✓

Cargo Hatchways.—(Upper Deck)

8" x 50" coaming

Thickness of Hatches

50" lugged O.T. covers

Size of Hatchways

5'3" x 4'0"

No. 2

No. 3

No. 4

No. 5

No. 6

Number of Shifting Beams and/or Fore and Afters

✓

For and on behalf of

SIR JAMES LAING & SONS LIMITED.

Builder's Signature

James Laing
Managing Director

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

The vessel has been built in accordance with the approved plans, the Secretary's letters, & the Rules.

The materials & workmanship are good.

The freeboard marks have been verified & cut in on the vessel's sides.

The double bottom, deep, fore & after peak, F.H., cargo oil, tanks, oil fuel bunkers, cofferdams, have been tested in accordance with the Rules.

The deck, steering gear, emergency steering gear, windlass, have been satisfactorily tested.

The equipment of anchor & cable, has been reduced as per Secretary's letters 22.2.40, & 21.9.40.

The following reports are enclosed:— Stern Frame, Rudder Head, Rudder Frame & Bolts, Piece Rudder & Liller.

The amount of Entry Fee.....	£ 11: 0	Fees applied for, 25 Nov 1942
<i>Int. Regd</i>	20 0 0	
Special Survey Fee.....	£ 670 18: 0	Received by me, 19
<i>Specification</i>	167. 14 6	
Travelling Expenses, if any	£ : :	

(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*

Signature

W. C. Lilla

Surveyor to Lloyd's Register of Shipping.

State whether the Vessel has been built under Special Survey *YES*Certificate to be sent to *SUNDERLAND.*

Date of issue

1/1/43.

Committee's Minute

TUE 8 DEC 1942

Character assigned

*+100 A.1**Carrying petroleum in bulk**Lloyd's arch. O.S. E.S.D.**tab 11.42**note for S.R.L. Ham
write to
"Meth"**25.01.43. 20-1000
oil dip.**2020*Lloyd's Register
Foundation

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.)

Sister Vessel M.V. EMPIRE WORDSWORTH SLD. RPT. N^o 33498.

PARTICULARS OF ELECTRIC WELDING (if employed)

Hatch coaming welded to deck.

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

DE ; ESD.

Longitudinal Framing.

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

including pins

1st Bower

55 0 14.

J.D.

3889

13.12.41

2nd "

54 1 21

J.D.

3874

2.12.41

3rd "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop *103.8* ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle *39.0* ft.

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

Official No. *169033*

Signal Letters ☒

Extreme Breadth over Belting ☒

(Circ. 1611)

Over-all Length *503.9 1/2*

(Circ. 1703)

No. and Material of Decks *1 Steel Deck.*

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.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fore peak tank,	<i>23.5</i>	<i>13.5</i>
Double bottom, under Engines and Boilers,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	After peak tank,	<i>14.5</i>	<i>13.0</i>
Double bottom, if under Engines only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deep tank, aft,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Double bottom, if under Boilers only,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deep tank, forward,	<i>31.08</i>	<i>44.5</i>
Double bottom, forward,	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Other tanks, if fitted, <i>Cofferdams</i> <i>Att</i>	<i>3.00</i>	<i>18.4</i>
Total length (if continuous) and Capacity	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	(If necessary furnish further information by sketch, <i>For</i>	<i>3.00</i>	<i>16.4</i>

Order for Special Survey No. *5989*

Date *8.7.41*

Dates of Surveys held while building

*1943 Jan 22 Feb 5 12 23 24 25 27 Mar 23 9 10 13 16 23 25 26 30 31 Apr 3 7 9 10
13 15 17 20 21 22 24 27 28 May 1 7 8 13 15 18 22 26 27 June 1 2 3 4 5 8 9 12 15 17 18 22
23 24 25 26 27 30 July 2 3 6 7 8 9 13 14 15 16 17 20 21 22 23 Aug 4 5 7 10 11 12 14
17 21 22 27 31 Sep 8 9 10 16 24 Oct 12 Nov 10 23*

Total No. of Visits *93*