

## 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 *8th October, 1941.* Port of *Grimsey*No. *21400*Survey held at *Grimsborough* Date First Survey *12th April, 1940* Last Survey *23rd September 1941*On the *(Full Scantling, Complete Superstructure with or without Tonnage Openings)* *Single Screw M/V. "EMPIRE FORD"*State Type *(Full Scantling, Complete Superstructure with or without Tonnage Openings)* *Full Scantling*State Type of Erections *Prop & Forecastle*TONNAGE under Tonnage Deck... *230.18*CLASS *100A1*State if with freeboard as condition of Class *no*Built at *Grimsborough*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 130.00*Launched *28th May, 1941* Yard No. *1526*Total *230.18*Breadth (greatest moulded) *B 24.50*Builders *J. S. Watson (Grimsborough) Ltd.*Gross Tonnage *319.74*Depth at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 9.66*Owners *Ministry of War Transport*Register Tonnage *149.78*1st Longitudinal Number (L x D) *= 1255*Managers *Robt E. Rice & Sons*

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

2nd Numeral L x (B + D) *= 4430*Residence *Kull*

## REGISTERED DIMENSIONS.

FEET.

Length *131.50*Framing Depth "d" at middle of length. See Sec. 3 (1d) *8.50*Breadth *24.55*Proportions—Depth to Length—Uppermost continuous deck to top of keel *13.46*Draught Moulded *8.80*Do. Long Bridge to top of keel *✓*Port of Registry *Kull*

If surveyed while building, afloat, or in dry dock

*1 Building & Afloat*

## 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	21	✓	Bracket Floors, Frame	—	—
" " from $\frac{3}{8}$ length amidships to Collision bulkhead	21	✓	" " Reversed Frame	—	—
" " in peaks	21	✓	" " Vertical Struts	—	—
FRAME FRAMING.			Centre Girder, depth and thickness amidships	—	—
Frame Amidships, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	4 2 $\frac{1}{2}$ .30	✓	" " top Angles	—	—
" " Extends up to	upper deck	✓	" " bottom Angles	—	—
Reversed Frame Amidships, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	2 $\frac{1}{2}$ 2 $\frac{1}{2}$ .32	✓	Side Girders, No. each side and thickness	—	—
" " Extends up to	upper deck	✓	Margin Plate depth (excl. of flange) and thickness	—	—
Depth of Framing Girder	4	✓	" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	—	—
Frames in Uppermost Continuous between Decks, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	—	—	" " Vertical Angle to Tank side Bracket from forward $\frac{1}{4}$ len. from stem to Panting Area	—	—
" " Second between Decks, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	—	—	" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem	—	—
" " Third " " "	—	—	" " Gussets, spacing and scantling from forward $\frac{1}{4}$ len. from stem to Panting Area	—	—
" " from $\frac{1}{4}$ len. for'd. to 15% len. from Stem	4 2 $\frac{1}{2}$ .30	✓	Tank Side Brackets, height above base line at toe of Frame and thickness	—	—
" " in Peaks, Angle $\frac{1}{2}$ or $\frac{3}{4}$	4 2 $\frac{1}{2}$ .30	✓	INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	5/8 : 4 $\frac{1}{2}$	✓	Breadth and thickness of Middle Line Strake	—	—
State if Frame Joggled	no	✓	Thickness of remainder in Holds	—	—
Are the scantlings and arrangements in the Panting Area 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?	—	—
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	yes	✓	BEAMS.		
ANGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	5 3 .30	✓
Floors, Depth and thickness at mid-line in Holds	14 x .32	✓	" " in way of Bridge, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	5 3 .30	✓
" " covered up 2' 6" at ends on frames 56 to 65 inclusive	—	—	Spacing	21	✓
Height of Brackets at side above base line at toe of frame	—	—	Second Deck, amidships, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	—	—
Middle Line Keelson, on Floors, Angles, $\frac{1}{2}$ or $\frac{3}{4}$	3 $\frac{1}{2}$ x 3 x .38 double	✓	Spacing	—	—
" " Through Plate or Intercostal Plate	.32	✓	Third Deck, amidships, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	—	—
" " Foundation Plate on Floors	—	—	Spacing	—	—
" " Flat Plate Keel Angles	3 $\frac{1}{2}$ x 3 $\frac{1}{2}$ x .30 double	✓	Fourth Deck, amidships, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	—	—
Side Keelsons, No. each side	one	✓	Spacing	—	—
" " thickness of Intercostal Plate	.32	✓	Poop Deck, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	5 3 .36	✓
" " Angles	top 3 $\frac{1}{2}$ x 3 x .32 double bottom 2 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x .30 single	✓	Spacing	42	✓
DOUBLE BOTTOM.			Bridge Deck, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	—	—
Solid Floors, thickness and spacing	—	—	Spacing	—	—
" " Are Frame and Reversed Frame joggled?	—	—	Forecastle Deck, Angle, $\frac{1}{2}$ or $\frac{3}{4}$	5 3 .36	✓
Bracket Floors, breadth and thickness at middle line	—	—	Spacing	42	✓
" " breadth and thickness at margin plate	—	—			



	Inches In Ship.	Any Departure from Approved Plans To Be Noted.		Inches In Ship.	Any Departure from Approved Plans To Be Noted.
<b>PILLARS, No. of Rows.....</b>	- - -		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 .....	- - -	
" " " " " <i>Built ridges at aft end of No. 1 &amp; forward ends of the 2 hatchways. at center line and deep beam runs at frames 27, 31, 35, 39, 43, 47, 49, 51, 55 and 59.</i>	- - -		Thickness of Plating within line of openings..	- - -	
<b>Centre Line Bulkhead, IN O.T. TANK</b>			If Sheathed, material and thickness .....	- - -	
Stiffeners and Spacing.....	6 x 3 x .30 B&A-21 ✓		<b>Third Deck,</b>		
Plating, thickness of .....	.30 ✓		Stringer Plate, breadth and thickness.....	- - -	
<b>STRINGERS AND DECKS,</b>			If Plated, state thickness.....	- - -	
<b>Uppermost Continuous Deck,</b>			<b>Fourth Deck,</b>		
Stringer Plate, breadth and thickness in Wells	.38 ✓		Stringer Plate, breadth and thickness .....	- - -	
" " " , in way of Bridge .....	- - -		If Plated, state thickness .....	- - -	
" Angle in Well .....	3½ 3½ .34 ✓		<b>POOP DECK,</b>		
Thickness of Plating abreast Deck openings) in way of Wells .....	.38 ✓		Stringer Plate, breadth and thickness .....	.25 ✓	
Thickness of Plating abreast Deck openings) in way of Bridge .....	- - -		Plating, Sheathing, material and thickness ...	.25 SEMTEX 1" ✓	
Thickness of Plating within line of openings... .38 in way bulkheads .28 elsewhere	- - -		<b>Bridge Deck,</b>		
If Sheathed, material and thickness .....	SEMTEX .1/2" IN POOP ONLY.		Stringer Plate, breadth and thickness.....	- - -	
<b>Second Deck,</b>			Plating, Sheathing, material and thickness ...	- - -	
Stringer Plate, breadth and thickness in Wells....	- - -		<b>Forecastle Deck,</b>		
			Stringer Plate, breadth and thickness.....	.30 ✓	
			Plating, Sheathing, material and thickness ...	.26 ✓	

SCANTLINGS.				RIVETING.									
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.				BUTTS.			
	AMIDSHIPS.		FORWARD.			State if joggled?	SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth. Inches.	Thickness. Inches.	Thickness. Inches.	Thickness. Inches.				Diam. Inches.	Spacing or to center. Lines.		Diam. Inches.	Spacing or to center. Inches.	
FLAT PLATE KEEL .....	50	42	38	38	36"	double	3/16	5 in each space	double	3/16	2 5/8	strapped	
" DECK (if any) .....	—	—	—	—									
BOTTOM PLATING, No. of Strakes .....	48 or 52	36	32	32		{ single 7/8 7 in double 5/8 7 in each space				5/8	2 1/2	lapped	
BILGE PLATING, No. of Strakes .....	53	32	28	28		single 5/8	"	"	"	"	"	"	
SIDE PLATING, No. of Strakes .....	57	32	32	32		single & double 7/8 or 7/16	"	"	"	"	"	"	
UPPER DECK, Sheer-strake in Wells .....	40	40	40	✓		double 3/16	6 in each space	double	3/16	2 5/8	strapped		
UPPER DECK, Sheer-strake in Bridge .....	40	40	54 at break			double & single 3/16	"	"	"	"	"	"	
STRAKE BELOW SHEER-strake in Wells .....	—	—	—	—									
STRAKE BELOW SHEER-strake in Bridge .....	—	—	—	—									
POOF SIDE PLATING .....	—	24	40 at break			single 5/8	7 in each space	top strake single 5/8 bottom " double "	5/8	2 1/2	strapped		
BRIDGE SIDE PLATING .....	—	—	—	—									
FORE'TLE SIDE PLATING .....	—	30 or 26				single 5/8	"	single	2 5/8	2 1/2	strapped		

<b>Total No. of W.T. BULKHEADS in Vessel</b> <i>Two</i>		<b>Extending to Upper Deck (Sec. 3 c)</b> <i>Two W.T. and Two O.T.</i>		<b>Deck next below</b> <i>✓</i>		<b>As per Rule</b> <i>Three</i> <i>✓</i>	
		<b>STIFFENERS.</b>					
		<b>VERTICAL.</b>		<b>HORIZONTAL.</b>			
<b>Plating Thickness.</b>		<b>Stanchings.</b>	<b>Spacing.</b>	<b>Stanchings.</b>	<b>Spacing.</b>		
<b>MIDSHIP BULKH'D,</b> Upper tween decks		—	—	—	—		
<b>" " Second "</b>		—	—	—	—		
<b>" " Third "</b>		—	—	—	—		
<b>" " Hold "</b>		—	—	—	—		
<b>COLLISION</b>		<i>13 A</i>	<i>24</i>	—	—		
<b>AFTER PEAK</b>		<i>13 A</i>	<i>23</i>	—	—		
<b>Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)</b>		<i>Appleby, Frodingham, Consett, Colville &amp; Dorman Long.</i>					
<b>Has the Steel been tested as required by the Rules?</b>		<i>yes</i>					

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY TABLE.		Description of Anchor.	Makers.	Where and when tested and Superintendent.		
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			lbs.		
53882	1st Bower ...	7	1	12	✓	9	11	2	7	✓	7½	✓	Ball's Type (C.S. Steel) B. Dingliss, Cambridge, Mass. 24/4/95. S.C. Paul.	"	"	"	
53883	2nd " ...	7	1	7	"	9	11	2	7	✓	7	✓	" " " " " " " " " " " "	"	"	"	
	3rd " ...	14	2	19							14½						
	Collective weight.																
53651	Stream .....	2	1	8		2	13	4	17	2	0	2½	✓	Ordinary forged	"	"	5/1/90 "

Number of Certificate.	Length and size supplied.		Test per Certificate. Strain. Break- ing.	WEIGHT OF CHAIN CABLE.		Length and Size per Table 33.	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 33.		
	Length.	Diam.		Supplied.	Per Rule.						Length.	Diam.		Length.	Diam.	
	Fathoms.	Inch.	Tons.	Tons.	Owts. qrs. lbs.	Owts.	Fathoms.	Inch.			Fathoms.	Inch.	Tons.	Fathoms.	Inch.	
62713	166	1 1/4	13 3/4	20 7/8	70 2 0	6 4 1/2	165	1 1/4	Steel	B. Dinghy & Co. Crosby Crest 17/3/41. J. C. Paul	TOWLINE...	75	2 1/4	10-8	75	2 1/4
											HAWSERS & WARPS	90	4	10-11		
Iron Stream } Chain or Steel Wire	45	2 1/4		10-8			45	2 1/4								

Steering Gear, Type (Power or hand) *Worm Wheel (Hand)* Alternative Means of Steering *Relieving Tackle*

Steering Chains (Size and Test) *7/8" short links: 14 3/4 S. Windlass <sup>Tons</sup> 9 1/4 13. Hand driven by 1250 engine chain from winch.* Boats *Two 16'-0" (wood).*

Ceiling in Holds, thickness and material *3" Scotch Fir.* Cargo Battens, thickness, material and spacing *not fitted*

Cargo Hatchways.—(Upper Deck) *Steel plates & angles.* Thickness of Hatches *2 1/2"*

Size of Hatchways No. 1 (Fwd.) *20'-2" x 14'-6" No. 3 36'-0" x 14'-6" No. 3* ✓ No. 4 ✓ No. 5 ✓ No. 6 ✓

Number of Shifting Beams *Four to No. 1 and eight to No. 2.*  
and/or Fore and Afters

J. S. WATSON, (Capt.)

W.S. Mason  
Governing Director.

This vessel has been built in accordance with the approved plans dated 13/3, 27/3, 9/5, 23/5, 25/5, 25/9, 30/10 and 18/11/40, Contract Specification and in conformity with the Rules for the class contemplated: Specification is forwarded with the report: not received

The materials and workmanship employed during the construction are of good quality:

The oil and fuel after peak tanks tested in accordance with the Rules:

Weather deck water tested by a hose:

Wood spanning <sup>is</sup> fitted on fore side of No 21 O.T. bulkhead and <sup>an</sup> oil gutterway drained by means of a hand pump: Section 20

The painting arrangements are in accordance with the Rules or as approved:

The amount of Entry Fee . . . . . £	3	:	0	:	0	Fees applied for, <i>8/10</i> 19 <i>44</i> Received by me, 19
Special Survey Fee . . . . . £	40	:	0	:	0	
<i>Travelling Expenses, if any</i> £	2	:	2	:	0	

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

I am of opinion the Vessel should be Classed **+** 100A1

State whether the Vessel has been built under Special Survey. *yes*

Certificate to be sent to *Grimsby* } Date of issue *3/11/41*  
*Grimsby* " "*Manchester*

Committee's Minute *FRI. 22 OCT 1941*

Character assigned *1.100*

Signature *F. L. Palmer*  
Surveyor to Lloyd's Register of Shipping.

Character assigned +100%  
Lycop. arce. Oz.

+ Lmb. 9. 41

Write ~~had~~  
up



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.)

Forging 12ft of Stern frame Cradler is attached. (Guns Rpt F.3915)

PARTICULARS OF ELECTRIC WELDING (if employed)

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

Cruiser Stern

Large bottom not fitted

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

1st Bower 4-1-23 : J.O. 5884 : 15/1/41.  
2nd " 4-1-19 " 5883. : 15/1/41.  
3rd "

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 36.0 ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 13.0 ft.  
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated ✓

Official No. 167108 Signal Letters Extreme Breadth over Belting (Circ. 1611) Over-all Length (Circ. 1703) 137.0 ✓

No. and Material of Decks 1 Plk (Stl) ✓

Parts of Bottom of Vessel coated with cement or approved composition 13 Bottom coated with cement covering rivet heads. Ironwork below ceiling in hold and all in fore & after peaks cement washed.  
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,	—	35
Double bottom, under Engines and Boilers,	—	—	After peak tank,	—	21
Double bottom, if under Engines only,	—	—	Deep tank, aft,	—	23
Double bottom, if under Boilers only,	—	—	Deep tank, forward,	—	—
Double bottom, forward,	—	—	Other tanks, if fitted,	—	—
Total length (if continuous) and Capacity	—	—	(If necessary, furnish further information by sketch.)	—	—

Order for Special Survey No. —

Date —

Dates of Surveys held while building

12/4, 27/5, 14/6, 17/9, 11/10, 22/11, 16/12, 20/12/40, 7/2, 14/2, 6/3, 18/4, 25/4, 28/5, 21/7, 5/8, 14/8, 18/8, 16/9 and 23/9/41.



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Total No. of Visits 20

No order form available when filed 7.7.42