

STEEL ~~STEAMER~~ OF MOTORSHIP.

Received at London Office 15 DEC 1941

State if Report has been sent on the Freeboard of the Vessel YESState if Report is sent on the Machinery of the Vessel YES (London)

Date of completion of report

12-12-41

Port of

IPSWICH

No. 110,099

Survey held at

LOWESTOFT

Date First Survey

28 May 1940

Last Survey

4 DECEMBER

1941

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

SINGLE SCREW MOTOR COASTER

"EMPIRE SOUND"

MACH. FITTED AFT

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

FULL SCANTLING

State Type of Erections POOP &amp; FORECASTLE

TONNAGE under Tonnage Deck...

227.35

CLASS +100A1.

State if with freeboard as condition of Class

No

Built at

LOWESTOFT.

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

130

Launched

AUG 9<sup>TH</sup>/41.

Yard No. 281

Total

Breadth (greatest moulded)

B

24.5

Builders

RICHARDS IRONWORKS LTD.

Gross Tonnage

314.54

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

D

9.6

Owners

MINISTRY OF WAR TRANSPORT.

Register Tonnage

145.69

1st Longitudinal Number (L x D)

= 1255

Managers

CRAGGS &amp; JENKIN LD.

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

2nd Numeral L x (B + D)

= 4430

Residence

HULL.

## REGISTERED DIMENSIONS.

FEET.

Length

131.5

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

L

130

Breadth

24.6

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

13.46

Depth

8.8

Do. Long Bridge to top of keel

D

9.6

Draught Moulded 8'-10 5/8"

8.885

If surveyed while building, afloat, or in dry dock

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.
<b>FRAMES, Spacing amidships</b>	21		<b>Bracket Floors, Frame</b>		
" " from 1/2 length amidships to Collision bulkhead	21		" " Reversed Frame		
" " in peaks	21		" " Vertical Struts		
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>		
Frame Amidships, Angle, <del>E or F</del>	4 x 2 1/2 x 30		" " top Angles		
" " Extends up to	UPPER DECK		" " bottom Angles		
Reversed Frame Amidships, Angle	✓		<b>Side Girders, No. each side and thickness</b>		
" " Extends up to	✓		<b>Margin Plate depth (excl. of flange) and thickness</b>		
Depth of Framing Girder	4		" " Vertical Angle to Tank side		
Frames in Uppermost Continuous 'tween Decks, Angle, [ or ]	✓		Bracket abaft 1/4 len. from stem		
" " Second 'tween Decks, Angle, [ or ]	✓		" " Vertical Angle to Tank side		
" " Third " " "	✓		Bracket from forward 1/4 len. from stem to Panting Area		
" " from 1/4 len. for'd. to 15% len. from Stem	4 x 2 1/2 x 30		" " Gussets, spacing and scantling abaft 1/4 len. from stem		
" " in Peaks, Angle <del>E or F</del>	4 x 2 1/2 x 30		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	5/8 - 4 1/2		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>		
State if Frame Joggled	No		<b>INNER BOTTOM PLATING.</b>		
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and <del>as</del> approved?	YES		Breadth and thickness of Middle Line Strake		
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and <del>as</del> approved?	YES		Thickness of remainder in Holds		
<b>SINGLE BOTTOM.</b>			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?		
Floors, Depth and thickness at mid-line in Holds	14 x 32		<b>BEAMS.</b>		
Height of Brackets at side above base line at toe of frame	✓		Uppermost Continuous Deck, amidships in Wells, Angle, <del>E or F</del>	5 x 3 x 30	
Middle Line Keelson, on Floors, Angles, <del>E or F</del>	3 1/2 x 3 x 38		" " in way of Bridge, Angle, [ or ]	✓	
" " " Through Plate or Intercostal Plate	32		Spacing	EVERY FRAME	
" " " Foundation Plate on Floors	✓		<b>Second Deck, amidships, Angle, [ or ]</b>	✓	
" " " Flat Plate Keel Angles	3 1/2 x 3 1/2 x 30		Spacing	✓	
Side Keelsons, No. each side	ONE		<b>Third Deck, amidships, Angle, [ or ]</b>	✓	
" " thickness of Intercostal Plate	32		Spacing	✓	
" " Angles <del>DOUBLE TOP SINGLE BOT.</del>	3 1/2 x 3 x 32		<b>Fourth Deck, amidships, Angle, [ or ]</b>	✓	
<b>DOUBLE BOTTOM.</b>	2 1/2 x 2 1/2 x 30		Spacing	✓	
Solid Floors, thickness and spacing			<b>Poop Deck, Angle, <del>E or F</del></b>	5 x 3 x 36	
" " Are Frame and Reversed Frame joggled?			Spacing	ALTERNATE FRAMES.	
Bracket Floors, breadth and thickness at middle line			<b>Bridge Deck, Angle, [ or ]</b>	✓	
" " breadth and thickness at margin plate			Spacing		
			<b>Forecastle Deck, Angle, <del>E or F</del></b>	5 x 3 x 36	
			Spacing	ALT. FRAMES.	



# 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.
<b>PILLARS, No. of Rows.....</b>											
"    in 'tween Decks, Size and Spacing.....											
"    "    "    "    "											
"    in Holds    "    "											
"    "    "    "    "											
<b>Centre Line Bulkhead.</b>											
Stiffeners and Spacing.....											
Plating, thickness of .....											
<b>STRINGERS AND DECKS.</b>											
<b>Uppermost Continuous Deck.</b>											
Stringer Plate, breadth and thickness in Wells	48"										
"    "    "    "    "    in way of Bridge											
"    Angle in Wells .....	3 1/2"	3 1/2"									
Thickness of Plating abreast Deck openings } in way of Wells .....											
Thickness of Plating abreast Deck openings } in way of Bridge .....											
Thickness of Plating within line of openings...											
If Sheathed, material and thickness .....											
<b>Second Deck.</b>											
Stringer Plate, breadth and thickness in Wells...											
Stringer Plate, breadth and thickness in way of Bridge											
Thickness of Plating abreast Deck openings } in way of Wells .....											
Thickness of Plating abreast Deck openings } in way of Bridge .....											
Thickness of Plating within line of openings...											
If Sheathed, material and thickness .....											
<b>Third Deck.</b>											
Stringer Plate, breadth and thickness.....											
If Plated, state thickness.....											
<b>Fourth Deck.</b>											
Stringer Plate, breadth and thickness.....											
If Plated, state thickness .....											
<b>Poop Deck.</b>											
Stringer Plate, breadth and thickness .....	54"										
Plating, Sheathing, material and thickness ...											
<b>Bridge Deck.</b>											
Stringer Plate, breadth and thickness.....											
Plating, Sheathing, material and thickness ...											
<b>Forecastle Deck.</b>											
Stringer Plate, breadth and thickness.....	48"										
Plating, Sheathing, material and thickness ...	26										

# SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.				Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL .....	36	42	.40 .42	.40		DOUBLE	3/4"	3	THREE	3/4	2 5/8	STRAPPED.	
„ DELG. (if any)													
BOTTOM PLATING, No. of Strakes ..... TWO .....	54	36	.36 .32	.32 .28		SINGLE	5/8	2 5/8	DOUBLE	5/8	2 1/4	LAPPED.	
BILGE PLATING, No. of Strakes ..... ONE .....	53	32	.32 .30	.28 .32		SINGLE	5/8	2 5/8	DOUBLE	5/8	2 1/4	LAPPED.	
SIDE PLATING, No. of Strakes ..... TWO .....	57	32	.32	.32		SINGLE	5/8	2 5/8	DOUBLE	5/8	2 1/4	LAPPED	
UPPER DECK, Sheer- strake in Wells.....	42	40	.40	.40		DOUBLE	3/4	3	THREE	3/4	2 5/8	STRAPPED.	
UPPER DECK, Sheer- strake in Bridge ...													
STRAKE BELOW Sheer- strake in Wells.....													
STRAKE BELOW Sheer- strake in Bridge ...				.40 .24									
POOP SIDE PLATING .....													
BRIDGE SIDE PLATING ...			.26										
FOREC'TLE SIDE PLATING			.30										

# WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c) **THREE**

    "    Deck next below **✓**

As per Rule **THREE**

# FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
<b>KEEL, Bar .....</b>	✓			
<b>STEM .....</b>	FORGING	5 3/4 x 1 1/8		✓
<b>STERN FRAME</b> { Propeller Post .....	Do	5 1/2 x 2 1/4		✓
{ Rudder " .....	Do	5 1/2 x 2 1/4		✓
<b>Speed of Vessel .....</b>	9 1/2	KNOTS.		✓
<b>RUDDER—Type .....</b>	SEMI BALANCED.			✓
"    A x D .....	44 x 4			
"    Diam. of head .....	4"			
"    Mainpiece at top pintle	4 1/2"			
"    "    heel ...	3 3/4"			
"    how constructed .....	FORGED ARMS SHRUNK ON.			
"    double or single plate coupling, vertical or horizontal .....	DOUBLE. HORIZONTAL.			

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
<b>MIDSHIP BULKH'D, Upper tween decks</b>					
"    "    Second    "					
"    "    Third    "					
"    "    Holds .....	3/8"	5 x 3 x 3/8"	24"		
<b>COLLISION</b> "    (in Hold) .....	.24	7 x 3 x 33 6A	23		
<b>AFTER PEAK</b> "    "    .....	.30	4 x 3 x 38	23		

STEEL.

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

APPLEBY-FRODINGHAM STEEL CO. LD.

DORMAN LONG & CO. LD.

Has the Steel been tested as required by the Rules? **YES.**

OPEN HEARTH.

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EQUIPMENT No										LETTER	ANCHORS.				
Number of Certificate.	Anchor.	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.			
54041	1st Bower ...	7	1	14				9	11	2	7	7 1/4	HALLS TYPE	✓	CRADLEY HEATH.
54073	2nd „ ...	7	0	14				9	7	0	21	7.	Do		22-4-41. L.C. PAUL.
	3rd „ ...														CRADLEY HEATH.
	Collective weight.	14	2	-											14-5-41. L.C. PAUL.
54043	Stream .....	2	1	10	-	2	19	4	15	0	0		ORDINARY.	✓	C.H. 22-4-41. L.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.	Statutory. Breaking.	Supplied.	Per Rule.			Length. Diam.					Length. Cir.	Tons.	Length. Cir.	
63333	60 5/8 7/8	13 3/4 20 5/8	23 - 1 - 17				165 1 1/2	STUD LINK	CONNOR BRO.	CRADLEY HEATH 17-5-41. L.C. PAUL.	TOWLINE...	75 2 1/4	10.8	75 2 1/4	
62868	105 5/8 7/8	13 3/4 20 5/8	43 - 2 - 5							15-3-41 Do.	HAWSERS & WARPS	90 4"	✓	90 4"	
	Cir.						Cir.								
Stream (Chain) Steel Wire	45 2 1/4	10.8	✓	✓			45 2 1/4								

Steering Gear, Type (Power or hand) HAND (GEAR WHEEL TYPE.) Alternative Means of Steering HAND TILLER & BLOCKS

Steering Chains (Size and Test) 5/8 TONS. CWT. QRS. LB. 4 - 12 - 2 - 0 Windlass HAND. MESSENGER CHAIN TO Boats Two. WINCH.

Ceiling in Holds, thickness and material 3" RED PINE. Cargo Battens, thickness, material and spacing NONE

Cargo Hatchways.—(Upper Deck) Two. Thickness of Hatches 2 1/2"

Size of Hatchways No. 1 (Fwd.) 20'-0" x 16'-6" No. 2 35'-9" x 16'-6" No. 3 ✓ No. 4 ✓ No. 5 ✓ No. 6 ✓  
WIDTH OF HATCHWAY AT DECK 16'-6" — AT CORNING TOP 14'-6"

Number of Shifting Beams Nº 1 HATCHWAY 4. Nº 2 HATCHWAY 9.  
and/or Fore and Afters

Builder's Signature

RICHARDS IRONWORKS LTD  
CROWN WORKS,  
LOWESTOFT.

*C. Richards*

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 No 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 constructed under Special Survey in accordance with the approved plans & Rule requirements. The materials & workmanship are sound & of good description. The fuel tanks, fore & after peak tanks have been tested by head of water as required by the Rules. The poop bulkhead, weather decks, waterways & coamings have been tested and the windlass, anchors & chain cables and steering gear have been examined under working conditions.*

The amount of Entry Fee ..... £ 3 : 0 : 0 Fees applied for,

Special Survey Fee... £ 31 : 10 : 0 Received by me,

+ 25% 7 : 17 : 6 19

Travelling Expenses, if any £ 12 : 18 : 9

FREEBOARD ASSIGNMENT 6 : 0 : 0

State whether the Vessel has been built under Special Survey YES.

I am of opinion the Vessel should be Classed + 100 A.1.

Signature

*A. J. Bell*

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to BUILDERS Date of issue 9/1/42

Committee's Minute

FIL. 2 JAN 1942

Character assigned

+ 100 A.1

*Lloyd's arch.*  
*OK.*

+ Limb. 12.41

*oil dep.*

*W. M. M.*

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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.)

M. V. "EMPIRE FIRTH" REPORT N<sup>o</sup> 109,866

PLANS OF VESSEL AS BUILT TO BE FORWARDED.

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 4-2-21. R.Q.D. N<sup>o</sup> 30867. 21-9-39.  
2nd " 4-1-17. J.D. N<sup>o</sup> 5864. 16-12-40.  
3rd "

**PARTICULARS FOR RECORD in the REGISTER BOOK.**—Length of Poop 36 ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 16 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated ✓

Official No. 166689 Signal Letters ✓ Extreme Breadth over Belting 24-10" (Circ. 1611) Over-all Length 137-0" (Circ. 1709)

No. and Material of Decks ONE STL.

Parts of Bottom of Vessel coated with cement or approved composition HOLD, ENGINE SPACE, PEAK TANKS.

Particulars of composition (if fitted) and of approval "SEMTEX" IN ACCOMMODATION, POOP & FORECASTLE 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.)

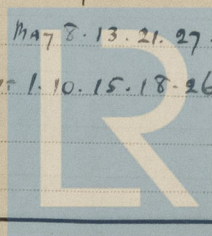
Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	<div></div>	<div></div>	Fore peak tank,	13	36
Double bottom, under Engines and Boilers,			After peak tank,	14.5	20
Double bottom, if under Engines only,			Deep tank, aft,	<div></div>	<div></div>
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 9.4.41.

Dates of Surveys held while building

1940: May 28 June 3. 14. 20 July 2. 10. 24. 29 Aug 5. 12. 19. 27 Sep 3. 9. 16. 24 Oct 1. 14. 22 Dec 11. 30.  
1941: Jan 13. 24. Feb 13. 17. Mar 3. 11. 20 Apr 1. 3. 7. 15. 22. 28 May 8. 13. 21. 27 June 8. 16. 24.  
July 1. 15. 17. 22. 25. 28. 29 Aug 6. 9. 18. 22. 29 Sept 1. 10. 15. 18. 26 Oct 10. 14. 20.  
Nov 3. 11. 17. 20. 24. 26 Dec 1. 3. 4.



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Total No. of Visits 10