M/S + P.A.D. Plans requested 7/9/44

Rpt. 1.

RECEIVED 5 SEP 1944 IN D.O.

DISCLASSED SECTION No. 794

STEEL ~~STEAMER~~ OR MOTORSHIP

DISCLASSED SECTION No. 794

-1 SEP 1944 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 24th August 1944. Port of HULL. No. 525?3.

Survey held at Knottingley and Goole. Date First Survey 25th January 1943. Last Survey 21st August 1944.

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Single Screw Motor Tanker "EMPIRE LUNDY". Mchy aft.

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Full Scantling State Type of Erections Forecastle + poop.

TONNAGE under Tonnage Deck	191.49
... space or spaces between Tonnage Dk. and Upper Dk.	✓
	191.49
Tonnage	288.0
ter Tonnage	103.77

REGISTERED DIMENSIONS.

	FEET
h	136.4
lth	21.55
	8.5

CLASS ✠ 100 A.1. "CARRYING PETROLEUM IN BULK"

State if with freeboard as condition of Class: No.

	FEET	
Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)	L	135'-0" ✓
Breadth (greatest moulded)	B	21'-6" ✓
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'-0" ✓
1st Longitudinal Number (L × D) =		1215 ✓
2nd Numeral L × (B + D) =		4117.5 ✓
Framing Depth "d," at middle of length. See Sec. 3 (1d)		8.0' ✓
Proportions—Depth to Length—Uppermost continuous deck to top of keel		15 ✓
Do. Long Bridge to top of keel		✓
Draught Moulded		8'-3 3/4"

Built at Knottingley

Launched 11th April 1944. Yard No. 167

Builders John Harker Ltd.

Owners The Ministry of War Transport.

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

Residence London.

Port of Registry Goole.

If surveyed while building, afloat, or in dry dock: During construction

FRAMES, ~~DOUBLE BOTTOM~~ AND BEAMS.

	Inches in Ship.			Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships		21	✓	
" " from ⅜ length amidships to Collision bulkhead		21	✓	
" " in peaks AFTER PEAK		17	✓	See endorsement 16.6.44 with "EMPIRE ALDERNEY"
FORE PEAK		21	✓	
SIDE FRAMING.				
Frame Amidships, ~~Angle, T or~~ [✓	4	2½	·40	✓
" " Extends up to	UPPER DECK			✓
Reversed Frame Amidships, Angle	2½	2½	·28	✓
" " Extends ~~up to~~	ACROSS FLOORS			✓
Depth of Framing Girder		4"		✓
Frames in Uppermost Continuous 'tween Decks, Angle, [or [				
" " **Second 'tween Decks,** Angle, [or [				
" " **Third** " " " "				
" **from ½ len. for'd. to 15% len. from Stem**				
" **in Peaks,** ~~Angle or~~ [	4	2½	·40	✓
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4"	–	4½"	✓
State if Frame Joggled		No.		✓
Are the scantlings and arrangements in the **Panting Area** in accordance with the Rules and/or as approved ?	AS APPROVED			
Are the scantlings and arrangements in way of the **Bottom Forward** in accordance with the Rules and/or as approved ?				
SINGLE BOTTOM.				
Floors, Depth and thickness at mid-line ~~in Holds.~~	12	× ·28		✓
Height of Brackets at side above base line at toe of frame	NONE			✓
Middle Line Keelson, on Floors, Angles, [or [				
" " " Through Plate or Intercostal Plate				
" " " Foundation Plate on Floors				
" " " Flat Plate Keel Angles				
Side Keelsons, No. each side		ONE		✓
" " thickness of Intercostal Plate		·28		✓
" " Angles TOP [	4	3	·30	✓
BOTTOM [	2½	2½	·30	✓
DOUBLE BOTTOM.				
Solid Floors, thickness and spacing				
" " Are Frame and Reversed Frame joggled ?				
Bracket Floors, breadth and thickness at middle line				
" " breadth and thickness at margin plate				

	Inches in Ship.			Any Departure from Approved Plans to be Noted.
Bracket Floors, Frame				
" " Reversed Frame				
" " Vertical Struts				
Centre Girder, depth and thickness amidships				
" " top Angles				
" " bottom Angles				
Side Girders, No. each side and thickness				
Margin Plate depth (excl. of flange) and thickness				
" " Vertical Angle to Tank side Bracket abaft ¼ len. from stem				
" " Vertical Angle to Tank side Bracket from forward ¼ len. from stem to Panting Area				
" " Gussets, spacing and scantling abaft ¼ len. from stem				
" " Gussets, spacing and scantling from forward ¼ len. from stem to Panting Area				
Tank Side Brackets, height above base line at toe of Frame and thickness				
INNER BOTTOM PLATING. Breadth and thickness of Middle Line Strake				
Thickness of remainder in Holds				
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 ?				
BEAMS.				
Uppermost Continuous Deck, amidships in Wells, Angle, ~~[or [~~	3	2½	·30	✓
" " in way of Bridge, Angle, [or [		✓		
Spacing		21"		✓
Second Deck, amidships, Angle, [or [				
Spacing				
Third Deck, amidships, Angle, [or [				
Spacing				
Fourth Deck, amidships, Angle, [or [				
Spacing				
Poop Deck, Angle, ~~[or [~~	4	3	·32	✓
Spacing	21"	&	17"	✓
Bridge Deck, Angle, [or [		✓		
Spacing		✓		
Forecastle Deck, Angle, ~~[or [~~	4	3	·32	✓
Spacing		21"		✓

DISCLASSED SECTION No. 794

PILLARS AND DECKS.

	Inches in Ship.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows	2 ✓	
„ in 'tween Decks, F'CLE Size and Spacing	3 × 3 × ·38 ✓ AND AS APPROVED	✓
„ „ „ „ „	✓	
„ in Holds „ „ „	✓	
„ „ „ „ „	✓	
Centre Line Bulkhead. Stiffeners and Spacing	5 × 3 × 5/16" – 21"	✓
Plating, thickness of	·32 – ·28	✓
STRINGERS AND DECKS. **Uppermost Continuous Deck.** Stringer Plate, breadth and thickness in Wells	66½" × ·30	✓
„ „ „ „ in way of Bridge	✓	
„ Angle in Wells	H H 3/8"	✓
Thickness of Plating abreast Deck openings in way of Wells	·30	✓
Thickness of Plating abreast Deck openings in way of Bridge	✓	
Thickness of Plating within line of openings...	·30 ℄ ·25 as per Lellé 16.9.44	
If Sheathed, material and thickness	✓	
Second Deck. Stringer Plate, breadth and thickness in Wells	✓	

	Inches in Ship.	Any Departure from Approved Plans to be Noted.
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		
Third Deck. Stringer Plate, breadth and thickness		
If Plated, state thickness		
Fourth Deck. Stringer Plate, breadth and thickness		
If Plated, state thickness		
Poop Deck. Stringer Plate, breadth and thickness	51 × ·25 ✓	
Plating, ~~Sheathing, material and thickness~~	·25 ✓	
Bridge Deck. Stringer Plate, breadth and thickness	✓	
Plating, Sheathing, material and thickness	✓	
Forecastle Deck. Stringer Plate, breadth and thickness	69 × ·26 ✓	
Plating, ~~Sheathing, material and thickness~~	·26 ✓	

SHELL PLATING.

SCANTLINGS.

STRAKES.	AS IN VESSEL. Amidships. Breadth.	Amidships. Thickness.	Forward. Thickness.	Aft. Thickness.	ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.
	Inches.	Inches.	Inches.	Inches.	
Flat Plate Keel	52 ✓	·42 ✓	·38 ✓	·38 ✓	
„ Dblg. (if any)	✓	✓			
Bottom Plating, No. of Strakes A	72 ✓	·32 ✓	·36 ✓	·28 ✓	
Bilge Plating, No. of Strakes B	45 ✓	·32 ✓	·28 ✓	·28 ✓	
Side Plating, No. of Strakes	✓	✓			
Upper Deck, Sheer-strake in Wells D	46 ✓	·40 ✓	·28 ✓	·28 ✓	
Upper Deck, Sheer-strake in Bridge	✓	✓			
Strake below Sheer-strake in Wells C	46 ✓	·32 ✓	·28 ✓	·28 ✓	
Strake below Sheer-strake in Bridge	✓	✓			
Poop Side Plating	43 ✓	·25 ✓			
Bridge Side Plating	✓	✓			
Forecastle Side Plating	39 ✓	·25 ✓			

RIVETING.

	EDGES. State if joggled? Nos. Single or Double.	Rivets. Diam.	Rivets. Spacing cr. to cr.	BUTTS. No. of Rows of Rivets.	Rivets. Diam.	Rivets. Spacing cr. to cr.	Strapped or Lapped.
		Inches.	Inches.		Inches.	Inches.	
Flat Plate Keel	DBLE – SINGLE ✓	3/4 ✓	7 PR. R. ✓	3 – 2 ✓	3/4 ✓	2 5/8 ✓	LAPPED ✓
„ Dblg. (if any)	✓						
Bottom Plating, No. of Strakes A	DBLE – SINGLE ✓	5/8 ✓	8 PR. R. ✓	2 ✓	5/8 ✓	2 1/4 ✓	LAPPED ✓
Bilge Plating, No. of Strakes B	" ✓	" ✓	" ✓	2 ✓	" ✓	" ✓	" ✓
Side Plating, No. of Strakes	✓			✓			
Upper Deck, Sheer-strake in Wells D	DBLE – SINGLE ✓	3/4 ✓	7 PR. R. ✓	3 – 2 ✓	3/4 ✓	2 5/8 ✓	LAPPED ✓
Upper Deck, Sheer-strake in Bridge	✓			✓			
Strake below Sheer-strake in Wells C	DBLE – SINGLE ✓	5/8" ✓	8 PR. R. ✓	2 ✓	5/8 ✓	2 1/4 ✓	LAPPED ✓
Strake below Sheer-strake in Bridge	✓			✓			
Poop Side Plating	WELDED ✓			WELDED ✓			WELDED ✓
Bridge Side Plating	✓			✓			✓
Forecastle Side Plating	WELDED ✓			WELDED ✓			WELDED ✓

WATERTIGHT BULKHEADS. See plan

Total No. of W.T. BULKHEADS in Vessel—		O.T. BULKDS.
Extending to Upper Deck (Sec. 3 c)	2 1	7 8
„ Deck next below	✓	✓
As per Rule	H	

	Plating Thickness.	STIFFENERS. Vertical. Scantlings.	Vertical. Spacing.	Horizontal. Scantlings.	Horizontal. Spacing.
	Inches.				
MIDSHIP BULKH'D, Upper 'tween decks					
„ „ Second „					
„ „ Third „					
O.T. „ ~~Holds~~ ON FRAME No. 22	·32 – ·28	5" × 3 × ·34 ℄ ✓	24" ✓		
COLLISION „ (in Hold) „ „ 72	·32 – ·28	6" × 3 × ·38 ℄ ✓	24" ✓		
AFTER PEAK „ „ „ „ 5	·50 – ·26	4" × 3 × ·30 ℄ ✓	24" ✓		

FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar	FLAT PLATE KEEL			
STEM		6" × 1 1/4" ✓		6" × 1 1/8" ✓
STERN FRAME Propeller Post		5 1/2 × 2 3/4" ✓		
STERN FRAME Rudder „		✓		
Speed of Vessel		10 KNOTS ✓		
RUDDER—Type		SEMI-BALANCED STREAM LINE ✓		
„ A × D		✓		
„ Diam. of head		42" TO 4" ✓		
„ Mainpiece at top pintle		4 1/2" ✓		
„ „ heel		4 1/2" ✓		
„ how constructed		WELDED CONSTRUCTION ✓		
„ double or single plate		DOUBLE ✓		
„ coupling, vertical or horizontal		HORIZONTAL ✓		

STEEL.

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

PLATES:- APPLEBY-FRODINGHAM STEEL CO. LD.

SECTIONS:- DORMAN, LONG & CO. LD. CONSETT IRON CO. LD.

Has the Steel been tested as required by the Rules? Yes. ✓

EQUIPMENT No. 4480. ✓ LETTER d ✓

ANCHORS.

Number of Certificate.	Anchors.	Weight, Ex. Stock. Cwts.	qrs.	lbs.	Weight of Stock. Cwts.	qrs.	lbs.	Test, per Certificate. Tons.	cwts.	qrs.	lbs.	Weight Required by Table 53. Cwts.	Description of Anchor.	Makers.	Where and when tested, and Superintendent.
56195	1st Bower ...	7	1	12	STOCKLESS			9	11	2	7	7¼	BRITANNIC (CAST STEEL HEAD)	R. SYKES & SON	CRADLEY HEATH 22·6·43 W.V. NORMAN
56196	2nd ,, ...	7	1	12	"			9	11	2	7	7¼	" " "	" " "	" " "
	3rd ,, ...														
	Collective weight	14	2	24								14(2) ¼			
57490	Stream	2	1	0	0	2	8	4	15	0	0	2¼ EX. STOCK	ORDINARY FORGED W.I. ANCHOR	ISAIAH PRESTON LD.	CRADLEY HEATH 15·3·44 W.V. NORMAN

CHAIN CABLES.

Number of Certificate.	Length and size supplied. Length. Fathoms	Diam. Ins.	Test per Certificate. Statutory. Tons.	Breaking. Tons.	Weight of Chain Cable. Supplied. Cwts. qrs. lbs.	Per Rule. Cwts.	Length and Size per Table 53. Length. Fathoms	Diam. Ins.	Description.	Makers of Cables.	Where and when tested, and Superintendent.
67055	165⅓	⅞	13¾	20⅝	72-1-1	64¼	165	14/16	STUD LINK	KENDRICK & MOLE LTD.	CRADLEY HEATH 7·8·43 W.V. NORMAN
~~Iron~~ Stream ~~Chain or~~ Steel Wire	45	Cir. 2¼		10·8			45	Cir. 2¼			

HAWSERS AND WARPS.

Material.	Length and Size supplied. Length. Fathoms	Cir. Ins.	Breaking Test of Steel Wire. Tons.	Length and Size per Table 53. Length. Fathoms	Cir. Ins.
TOWLINE	75	2¼	10·8	75	2¼
HAWSERS & WARPS	95	4 (HEMP)		90	4"
"	2@45	2	8·3		
"					

Steering Gear, Type (Power or hand) HAND GEAR. ✓ **Alternative Means of Steering** TILLER WITH BLOCKS & TACKLE ✓

Steering Chains (Size and Test) 5/8" DIAR. ✓ T C 4-12-2-0 ✓ **Windlass** ELECTRIC - EMERSON, WALKER LD. **Boats** 2 STEEL LIFEBOATS 16·5' x 5·95' x 2·45'

Ceiling in Holds, thickness and material NONE ✓ **Cargo Battens,** thickness, material and spacing NONE

Cargo Hatchways.—(Upper Deck) STEEL PLATES WELDED ✓ **Thickness of Hatches** ✓

Size of ~~(~~Hatchways ~~No. 1 (Fwd.)~~ O.T. 2'-6" x 2'-6" ✓ **No. 2** ✓ **No. 3** ✓ **No. 4** ✓ **No. 5** ✓ **No. 6** ✓

Number of **Shifting Beams** and/or **Fore** and **Afters** ✓

Builder's Signature E. K. Thurkettle Director for John Harker Ltd.

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* OIL 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).*

This ship has been built in conformity with the Society's Rules and Regulations and the Secretary's letters. The scantlings and arrangements are in accordance with, or equivalent to, those shown on the approved plans. ✓

The supervision of the specifications has been carried out. ✓

The materials and workmanship are good. ✓

Fore + after peak tanks, ✓ cargo oil tanks, ✓ oil fuel bunkers, ✓ + cofferdams ✓ have been tested to rule requirements and found in order. ✓

Decks shell clear of oil tanks hosetested and found in order. ✓

Windlass + steering gear arrangements tried under working conditions and found in order. ✓

A freeboard has been assigned, the marks cut in on the vessels sides and verified. ✓

The amount of Entry Fee ..... £ 3 : 0 : 0
FREEBOARD FEE. £ 4 : 0 : 0
Special Survey Fee ..... £ 43 : 4 : 0
SUPERVISION OF SPECIFICATION £ 10 : 16 : 0
Travelling Expenses, ~~if any~~ ..... £ 10 : 3 : 2

Fees applied for, 30 AUG 1944 19....

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".

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

Certificate ~~to be~~ sent to Hull. Date of issue 25/9/44 ✓

Signature J. R. Macleod
Surveyor to Lloyd's Register of Shipping.

Hull Mach. Manchester.

Committee's Minute TUES 12 SEP 1944

Character assigned +100A1 Carry? Pet.m in Bulk
Lloyd's A.C.P. Machy aft.
+LMC 8.44 OG. Oil Eng.

The Surveyors are requested not to write on or below the Committee's Minutes

write Hull. mch

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.*)

The approved plans are being retained for reference in dealing with sister-vessels under construction. ✓

PARTICULARS OF ELECTRIC WELDING (*if employed*)

Bulkheads & expansion trunks including stiffeners.
Upper deck, poop & forecastle deck plating ✓
Poops & forecastle side plating
Oil fuel bunkers.
Approved electrodes employed in this work. ✓

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

✠ 100 A.1.
"CARRYING PETROLEUM IN BULK."

Particulars of **Drop Test** of Cast Steel Anchors, viz. :— Weight, Surveyor's Initials, Number of Certificate, Date of Test.					
1st Bower	4-1-13 incl cup & pins.	A.E.G.	7292.	24.9.42
2nd ,,	4-1-14 " " " ✓	A.E.G.	7291.	24.9.42
3rd ,,				

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 40.72 ✓ ft., R.Q.D. ✓ ft., Bridge ✓ ft., Forecastle 13.79 ✓ ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated ✓

Official No. 180121. Signal Letters ✓ Extreme Breadth over ~~Belting~~ MOULDING (Circ. 1611) 21.8 ft. Over-all Length (Circ. 1703) 143.10 ft. ✓

No. and Material of Decks 1 DK (STL)

Parts of Bottom of Vessel coated with cement or approved composition FORE & AFTER PEAKS CEMENT WASHED – MOTOR ROOM - BITUMEN SOLUTION.

Particulars of composition (if fitted) and of approval APPROVED BY A/M.S BRANCH.

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,	9.75	24 ✓
Double bottom, under Engines and Boilers,			After peak tank,	7.5	19¼ ✓
Double bottom, if under Engines only,			Deep tank, aft,		
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. 3434

Date 4th Oct 1943.

Dates of Surveys held while building

1943 - Jany. 25. June 2. July 29. Aug. 11. 20. 27. 30. Sept. 2. 7. 14. 21. Oct. 1. 8. 13. 16. 19. 27. Nov. 5. 12. 17. 23. 26. Dec. 2. 7. 16. 22. 1944 - Jany. 7. 20. Feby. 1. 11. 18. 23. 25. March 3. 8. 16. 29. April 18. 26. May 9. 18. 25. June 5. 15. 22. 28. July 17. 31. August 3. 4. 18. 21.

Total No. of Visits 52