

## STEEL STEAMER or MOTORSHIP.

Received at London Office

19 AUG 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 *Yes*Date of completion of report *2<sup>nd</sup> Aug 1942* Port of *Belfast* No. *13305*Survey held at *Belfast* Date First Survey *16<sup>th</sup> January 1941* Last Survey *29<sup>th</sup> July 1942*On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *Single Screw Tanker EMPIRE FLETCHER (Mach. aft)*State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Full Scantling (Hartmann)* State Type of Erections *Pop. Br., Yels.*TONNAGE under Tonnage Deck ... *7229.82*Do. of space or spaces between Tonnage Dk. and Upper Dk. *✓*Total *7229.82*Gross Tonnage *8194.47*Register Tonnage *4776.58*

## REGISTERED DIMENSIONS.

FEET

Length *465.6*Breadth *59.5*Depth *38.85*CLASS *HDDA-1. Carrying* 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) *460*Breadth (greatest moulded) *B 59*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 34*1st Longitudinal Number (L x D) *15640*2nd Numeral L x (B + D) *42780*Framing Depth "d," at middle of length. See Sec. 3 (1d) *✓*Proportions—Depth to Length—Uppermost continuous deck to top of keel *13.52*Do. Long Bridge to top of keel *✓*Draught Moulded *27-4 1/4*Built at *Belfast*Launched *4<sup>th</sup> April 1942* Yard No. *1081*Builders *Harland & Wolff, Ltd.*Owners *Ministry of War Transport*Managers *Haldin & Phillips*  
(Where necessary to be entered in Reg. Book)

Residence

Port of Registry *Belfast*

If surveyed while building, afloat, or in dry dock

*building and 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	<i>31 1/2</i>		Bracket Floors, Frame	<i>✓</i>	
" " from <i>forward cofferdam</i> length amidships to Collision bulkhead	<i>27</i>		" " Reversed Frame	<i>✓</i>	
" " in peaks	<i>24</i>		" " Vertical Struts	<i>✓</i>	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<i>60 1/2 57 1/2 46</i>	
Frame Amidships, <i>angle E or F</i>	<i>10 3 1/2 7 1/2</i>		" " top Angles	<i>4 4 9 1/6</i>	
" " Extends up to <i>upper deck</i>	<i>11 3 1/2 7 1/2</i>		" " bottom Angles	<i>4 4 9 1/6</i>	
Reversed Frame Amidships, Angle	<i>✓</i>		Side Girders, No. each side and thickness	<i>2 3 60 1 2 42</i>	
" " Extends up to	<i>✓</i>		Margin Plate depth (excl. of flange) and thickness <i>tank top straight</i>	<i>54</i>	
Depth of Framing Girder	<i>10</i>		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem	<i>6 6 50</i>	
Frames in Uppermost Continuous 'tween Decks, Angle, [ or [	<i>✓</i>		" " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area	<i>✓</i>	
" " Second 'tween Decks, Angle, [ or [	<i>✓</i>		" " Gussets, spacing and scantling abaft 1/4 len. from stem	<i>✓</i>	
" " Third " " " "	<i>✓</i>		" " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area	<i>✓</i>	
" " from <i>1/2 len. for'd to 15% len. from Stem for 1/2 cargo tank 1/2 1/2 1/2</i>	<i>11 3 1/2 4 1/4</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>46 ft 3"</i>	
" " in Peaks, Angle or [	<i>8 3 1/2 7 1/2</i>		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>7/8 0 4 7/8</i>		Breadth and thickness of Middle Line Strake	<i>1 1/8</i>	
State if Frame Joggled	<i>Yes</i>		Thickness of remainder in Holds	<i>52</i>	
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	<i>as app'd</i>		Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & P. space and framing in O.F. Bunkers and Boiler Room?	<i>as app'd</i>	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	<i>as app'd</i>		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in way of port	<i>8 3 1/2 7 1/6</i>	
Floors, Depth and thickness at mid-line in Holds	<i>See long framing plan</i>		" " in way of Bridge, Angle, [ or [	<i>8 3 1/2 7 1/6</i>	
Height of Brackets at side above base line at toe of frame	<i>See long framing plan</i>		" " Spacing	<i>every</i>	
Middle Line Keelson, on Floors, Angles, [ or [	<i>See long framing plan</i>		Second Deck, amidships, Angle, [ or [	<i>8 3 1/2 437 9 3 1/2 437</i>	
" " Through Plate or Inter-costal Plate	<i>See long framing plan</i>		" " Spacing	<i>every</i>	
" " Foundation Plate on Floors	<i>See long framing plan</i>		Third Deck, amidships, Angle, [ or [	<i>8 3 1/2 7 1/6</i>	
" " Flat Plate Keel Angles	<i>See long framing plan</i>		" " Spacing	<i>every</i>	
Side Keelsons, No. each side	<i>See long framing plan</i>		Fourth Deck, amidships, Angle, [ or [	<i>✓</i>	
" " thickness of Inter-costal Plate	<i>See long framing plan</i>		" " Spacing	<i>✓</i>	
" " Angles	<i>See long framing plan</i>		Poop Deck, Angle, [ or [	<i>8 3 1/2 35</i>	
DOUBLE BOTTOM.			" " Spacing	<i>every</i>	
Solid Floors, thickness and spacing in motor space	<i>46 23 1/2 30</i>		Bridge Deck, Angle, [ or [	<i>8 3 1/2 437</i>	
" " Are Frame and Reversed Frame joggled?	<i>Yes</i>		" " Spacing	<i>every</i>	
Bracket Floors, breadth and thickness at middle line	<i>✓</i>		Forecastle Deck, Angle, [ or [	<i>10 3 1/2 7 1/6 9 3 1/2 7 1/6</i>	
" " breadth and thickness at margin plate	<i>✓</i>		" " Spacing	<i>every</i>	



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FORGINGS AND CASTINGS.

Spacing

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Empire Fletcher No 7081.

## PARTICULARS OF LONGITUDINAL FRAMING.

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. Ins.	Speng. Ins.		Number.	Diameter. Inches.
Framing of L, [ or C .....													
Frames in Bridge 'tween Decks ...													
Frames from Uppermost Continuous Deck Int. continue girders No. 1		Plate 40" x 42" Keel bars 4 x 4 x 50, top bars 3 1/2 x 3 1/2 x 7/16											
	" 2												
	" 3	17 x 62 x 4 x 4 x 68		17 x 62 x 4 x 4 x 68				7/8	5 1/4	3 1/8 for 11 Rivets			
	" 4												
	" 5	Long Bulk plating 42" vent stiff 10 x 3 1/2 x 7/16 B & A spaced 31 1/2"											
	" 6												
	" 7	17 x 62 x 4 x 4 x 68		17 x 62 x 4 x 4 x 68				7/8	5 1/4	3 1/8 for 11 Rivets			
	" 8												
	" 9												
	" 10												
	" 11												
	" 12												
	" 13												
	" 14												
	" 15												
	" 16												
Spacing of Longitudinal Frames		Amidships 1-4		33"	At Ends 6-9		30"						
Tank Top Longitudinals													
Bottom													
Spacing of Longitudinals		Amidships			At Ends...								
Transverses.													
Side (between Decks)		Depth and Thickness											
		Face Angles											
		Lugs to Shell*											
Side (on Hold)		Depth and Thickness											
		Face Angles											
		Lugs to Shell*											
Bottom		Depth and Thickness											
		Face Angles											
		Lugs to Shell*											
		Back Bars											
		Brackets											
Spacing of Transverse Frames		10'-6"											
State if joggled or liners.													
Longitudinal Beams of L, [ or C		Bridge Deck ...											
		Upper "						9	3 1/2	7/16 Ba	9	3 1/2	7/16 Ba
		Second "											
		Third "											
Transverse Beams.		Plate.											
		Face Angles.											
		Any Departure from Approved Plans to be Noted.											
		29 x 42, 6 x 3 1/2 x 1/2											

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.

1m. 237. T.

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

Committee's Minute

Character assigned

+ 1000 ft  
Carrying petroleum in bulk

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Lloyd's Register  
Foundation



EQUIPMENT No.										LETTER	ANCHORS.					
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.					
40691	1st Bower	73	2	12	stock			55	15	0	0	✓	77	Byron Imp. Cast St. head for W.L. Byron & Co.	Sunderland.	8/11/41 Norman
40505	2nd "	73	1	0	"			55	10	0	0	✓	77	do do do do	do	31/1/41 Norman
	3rd "												65 1/2			
	Collective weight											✓	219 1/2			
54288	Stream	22	0	22	5	2	14	22	11	1	0		22	Rodgers forged W.L. iron	not stated	Cadby H. 26/7/41 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.	Statu- tory.	Break- ing.	Supplied.	Per Rule.			Length.	Diam.					Length.	Clr.		Length.	Clr.
42077A	240	2 3/8	106 3/8	149 3/8	714-2.0				300	2 3/8	clad	not stated	Canduff 29/9/41 B. & W.	TOWLINE	130	5 1/4	77 1/2	130	5 1/4
116788	2 from Stock for	2 3/8	106 3/8	149 3/8	2-0.18							not stated	Netherdon 16/2/42 Reel	HAWSERS & WARPS	20/100	2 3/4	15 3/4	20/100	2 3/4
	Iron Stream Chain or Steel Wire	120	5		52 5/8				120	5									

Steering Gear, Type (Power or hand) *Hastie's steam hydraulic* Alternative Means of Steering *blocks & tackle to after winch*

Steering Chains (Size and Test) *telemotor control* Windlass *steam, efficient* Boats *3+1 with motor*

Ceiling in Holds, thickness and material *none* Cargo Battens, thickness, material and spacing *steel battens in fore hold*

Cargo Hatchways.—(Upper Deck) *steel O.T. hatchway 40* Thickness of Hatches *5/4 steel*

Size of Hatchways No. 1 (Fwd.) *8' x 8'* No. 2 *27 hatchways to cargo tanks 4' 6" x 3' 6"* No. 3 No. 4 No. 5 No. 6

Number of Shifting Beams and/or Fore and Afters *none*

FOR HARLAND AND WOLFF, LIMITED.

Builder's Signature

*Wm Balfour*  
Secretary

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 *motor ship*  
(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).

*oil fuel is carried in bunkers situated at the fore side of the motor space, in deep tank forward of forward cofferdam and in the double bottom under engines. Oil cargo is carried in 27 compartments between forward and after cofferdam separated into three groups by two pump rooms. This vessel has been built in accordance with the approved plans, Secretary's letters and the Rules of the Society. The material and workmanship are good. All cargo tanks, oil fuel bunkers, deep tank forward, fore and after peak tanks, fresh water tanks double bottom compartments in motor space and cofferdams have been tested to Rule requirements and found satisfactory. Weather decks, W.T. bulkheads, also side lights have been satisfactorily tested. Bilge pumping arrangements tried and found in order. Keelboard verified and cut in.*

The amount of Entry Fee..... £11 : 0 : 0  
Special Survey Fee..... £607 : 5 : 6  
*Keelboard*  
Travelling Expenses, if any ..... £19 : 0 : 0

Fees applied for,  
*1. 8. 19. 42*  
Received by me,  
19.

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

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

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

*carrying petroleum in bulk, Rang. framing at bottom and deck*

Signature

*Wm Balfour*

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Belfast*

Date of issue *17/9/42*

Committee's Minute

TUE 25 AUG 1942

Character assigned

*+100 A-1*

*Carrying petroleum in bulk*

*Lloyd's arch. Ed. E.S.D.*

*+Lme 7.42*

*2 DB-150 lb. Oil Eng*

*note for S.R.L. write G.L.*

*Be. Rm. plans*

002427-002434-00982



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.)

This vessel is a sister ship to the same Builders Empire Chapman, Hwn N°7080, and with modifications to Derwentdale N°7052, Empire Diamond N°7053 and Donsdale N°7078.  
The following forging and casting reports are enclosed.

Stern frame; back poop; rudder stock; tiller; rudder castings; (5 certificates)  
also certificates for masts and derricks (5 certificates)

PARTICULARS OF ELECTRIC WELDING (if employed) welding employed for angle butts and corners for oil tightness and for non structural items ✓

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book oil engine, machinery aft, cruiser stern  
D.F. E.S.D.

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

1st Bower Wt + pins 48c 3p 3ds J.Y. (Newcastle) N°3594. 28/10/40  
2nd „ Wt + pins 47c 3. 10 J.D. (Sunderland) N°3266 28/9/40.  
3rd „

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 93 ft., R.Q.D. ✓ ft., Bridge 46 ft., Forecastle 51 ft.  
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. 168514 Signal Letters \_\_\_\_\_ Extreme Breadth over Belting no belting Over-all Length 483  
(Circ. 1611) (Circ. 1703)

No. and Material of Decks one deck steel and second deck steel clear of oil cargo tanks

Parts of Bottom of Vessel coated with cement or approved composition none ✓

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, <u>under engines</u>	<u>69.5</u>	<u>156</u>	Fore peak tank,		<u>150</u>
Double bottom, under Engines and Boilers,			After peak tank,		<u>88</u>
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,	<u>24.7</u>	<u>275</u>
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. 895

Date 26. 2. 40

Dates of Surveys held while building

1941  
Jan 16 Feb 29 May 20. 26. 28 June 23. 25. July 8. 10. 21. 25. 28. 31 Aug. 6. 8. 12. 14. 15. 18. 25. 28  
Sept. 1. 3. 4. 5. 8. 9. 10. 12. 16. 18. 29. 30 Oct. 1. 2. 3. 6. 7. 8. 15. 16. 21. 23. 24. 27. 31 Nov. 6. 11. 12. 17. 21. 24. 25. 26  
Dec. 4. 8. 11. 16. 17. 22. 29. 30 1942  
Jan 5. 7. 9. 12. 14. 20. 23. 26. 27. 28. 29 Feb. 2. 4. 5. 6. 9. 10. 13. 16. 17. 19. 20. 23. 25. 26. 27. 28  
Mar. 2. 3. 4. 5. 6. 9. 10. 11. 12. 13. 14. 16. 17. 18. 20. 23. 24. 26. 28. 30. 31 Apr. 1. 3. 4. 15. 22 May 8. 13. 15 June 2. 30. July  
2. 7. 22. 23. 24. 27. 28. 29

Total No. of Visits 129