

2 OCT 1945

IN D.O.

## STEEL STEAMER OR MOTORSHIP.

Received at London Office

OCT 1945

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 *26<sup>th</sup> September 1945* Port of *West Hartlepool*No. *18686*Survey held at *West Hartlepool*Date First Survey *16/9/44*Last Survey *22/9/44*

1945

On the *Single Screw**S.S. Empire Dunnet**Machinery amidships*State Type *Complete Superstructure without Lomage opening*State Type of Erections *Fele + Poop*TONNAGE under Tonnage Deck ... *6677.14*CLASS *+100A1*State if with freeboard as condition of Class *YES*Built at *West Hartlepool*

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) *425'-0"*Launched *10<sup>th</sup> July 1945* Yard No. *1177*

Total

Breadth (greatest moulded) *B 56'-0"*Builders *William Gray & Co Ltd*Gross Tonnage *7372.83*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 38'-0"*Owners *Ministry of War Transport*Register Tonnage *5253.77*1st Longitudinal Number (L x D) *425 x 37 = 15,725*Managers *Common Bros*

(Where necessary to be entered in Reg. Book)

2nd Numeral L x (B + D) *425 (56 + 37) = 39,525*Residence *✓*

## REGISTERED DIMENSIONS.

Length *431.3*  
Breadth *56.2*  
Depth *35.6*Framing Depth "d," at middle of length. See Sec. 3 (1d) *21.83*Proportions—Depth to Length—Uppermost continuous deck to top of keel. *11.18*Do. Long Bridge to top of keel *✓*Draught Moulded *26'-9" - 12" for keel = 26'-7 1/2"*Port of Registry *West Hartlepool*

If surveyed while building, afloat, or in dry dock

*Building afloat & in Dry Dock*

## 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	36 ✓		Bracket Floors, Frame	✓	
" " from 1/2 length amidships to Collision bulkhead	27 ✓		" " Reversed Frame	✓	
" " in peaks	24 ✓		" " Vertical Struts	✓	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	43 1/4 x 54 ✓	
Frame Amidships, Angle, E or F	12 3 1/2 5/8 ✓		" " top Angles	3 1/2 3 1/2 48 ✓	
" " Extends up to	extends to 2 <sup>nd</sup> deck & every 3 <sup>rd</sup> frame to upper deck and in way of hatch end beams & vert. beam		" " bottom Angles	4 4 54 ✓	
Reversed Frame Amidships, Angle	12 3 1/2 5/8 ✓		Side Girders, No. each side and thickness	5-7 x 3 1/2 x 42 ✓	Plate guides E & B space + fore & aft
" " Extends up to	12 3 1/2 5/8 ✓		Margin Plate depth (excl. of flange) and thickness	56 ✓	margin plate welded to shell floor + tank side brackets
Depth of Framing Girder	12 ✓		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	✓	
Frames in Uppermost Continuous 'tween Decks, Angle, E or F	6 3 1/2 44 ✓		" " Vertical Angle to Tank side Bracket from forward 1/2 len. from stem to Panting Area	✓	
" " Second 'tween Decks, Angle, E or F	12 3 1/2 5/8 ✓		" " Gussets, spacing and scantling abaft 1/2 len. from stem	14" x 42 ✓	
" " Third	12 3 1/2 5/8 ✓		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	flanged on face ✓	
" " from 1/2 len. for'd. to 15% len. from Stem	12 3 1/2 5/8 ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	9-3 1/16 x 48 ✓	
" " in Peaks, Angle or F	8 3 1/2 36 ✓		INNER BOTTOM PLATING.		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	5/16 7/8 3" x 6" ✓		Breadth and thickness of Middle Line Strake	46 in holds ✓	
State if Frame Joggled	yes ✓		Thickness of remainder in Holds	54 under hatchway ✓	
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?	yes ✓	
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	yes ✓		BEAMS.		
SINGLE BOTTOM.			Uppermost Continuous Deck, amidships in Wells, Angle, E or F	15 x 4 x 4 1/2 ✓	15 x 4 x 4 1/2 with rider or reverse angle as per plan
Floors, Depth and thickness at mid-line in Holds	✓		" " in way of Bridge, Angle, E or F	12 x 4 x 4 1/2 ✓	12 x 4 x 4 1/2 Transverses, 9'-0" apart.
Height of Brackets at side above base line at toe of frame	✓		" " Spacing	6 3 1/2 40 long beams ✓	6 3 1/2 40 long beams
Middle Line Keelson, on Floors, Angles, E or F	✓		Second Deck, amidships, Angle, E or F	3-1 1/2 to 3-7 3/4 apart ✓	
" " Through Plate or Intercoastal Plate	✓		" " Spacing	✓	
" " Foundation Plate on Floors	✓		Third Deck, amidships, Angle, E or F	✓	
" " Flat Plate Keel Angles	✓		" " Spacing	✓	
Side Keelsons, No. each side	✓		Fourth Deck, amidships, Angle, E or F	✓	
" " thickness of Intercoastal Plate	✓		" " Spacing	✓	
" " Angles	✓		Poop Deck, Angle, E or F	9 3 1/2 52 ✓	
DOUBLE BOTTOM.			" " Spacing	6 3 40 ✓	5 x 3 x 33, 0 ft
Solid Floors, thickness and spacing	42 every frame ✓		Bridge Deck, Angle, E or F	36 30 24 ✓	
" " Are Frame and Reversed Frame joggled?	Frame yes ✓		" " Spacing	✓	
Bracket Floors, breadth and thickness at middle line	Reversed NO ✓		Forecastle Deck, Angle, E or F	8 3 34 ✓	
" " breadth and thickness at margin plate	✓		" " Spacing	27 x 24 ✓	



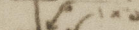
## PILLARS AND DECKS.

	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 .....	✓	
" " " " " " " " " " " "	✓		Thickness of Plating abreast Deck openings in way of Wells .....	.40 ✓	
" " " " " " " " " " " "	✓		Thickness of Plating abreast Deck openings in way of Bridge.....	✓	
" " " " " " " " " " " "	✓		Thickness of Plating within line of openings...	.34 ✓	
Centre Line Bulkhead. <i>HOLDS</i>	✓	.50 ✓	If Sheathed, material and thickness.....	✓	
Stiffeners and Spacing .....	2 10 3 1/2 3/8 4'-6" apart ✓		Third Deck.		
Plating, thickness of .....	.30 ✓		Stringer Plate, breadth and thickness.....	✓	
STRINGERS AND DECKS.			If Plated, state thickness .....	✓	
Uppermost Continuous Deck.			Fourth Deck.		
Stringer Plate, breadth and thickness in Wells	90° x .70 ✓		Stringer Plate, breadth and thickness.....	✓	
" " " " " " in way of Bridge	✓		If Plated, state thickness.....	✓	
" Angle in Wells .....	6 6 .68 ✓		Poop Deck.		
Thickness of Plating abreast Deck openings } in way of Wells .....	.65 1.70 ✓		Stringer Plate, breadth and thickness.....	.36 ✓	
Thickness of Plating abreast Deck openings } in way of Bridge.....	✓		Plating, Sheathing, material and thickness ...	.30 ✓	
Thickness of Plating within line of openings...	.40 ✓		Bridge Deck.		
If Sheathed, material and thickness.....	✓		Stringer Plate, breadth and thickness.....	✓	
Second Deck.			Plating, Sheathing, material and thickness ...	✓	
Stringer Plate, breadth and thickness in Wells	90°/4 x .44 ✓		Forecastle Deck.		
			Stringer Plate, breadth and thickness.....	.36 ✓	
			Plating, Sheathing, material and thickness...	.32 x .50 under bondless unsheathed.	

## SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged? <i>NO</i>	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED:
	Breadth.	Thickness.	Thickness.	Thickness.			SINGLE OR DOUBLE.	Diam.		Spacing cr. to cr.	Diam.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.	
Flat Plate Keel.....	55 7/8	.80	.70	.70		Double	7/8	3 1/2	welded			
" Dblg. (if any)												
Bottom Plating, No. of Strakes (3) ABC	A .63	.50	.50	.50	and .75 x .70 in flat	Double	7/8	3 1/2	Quad	7/8	3 1/2	lapped
	B .68	.50	.50	.50	of bottom plating fore.							
	C .63	.50	.50	.50								
Bilge Plating, No. of Strakes (2) DE	D .68	.50	.50	.50		Double	7/8	3 1/2	Quad	7/8	3 1/2	strapped
	E .68	.50	.50	.50								
Side Plating, No. of Strakes (2) FG	F .68	.46	.46	.46	Side plating increased to	Double	7/8	3 1/2	Quad	7/8	3 1/2	lapped
	G .68	.46	.46	.46	.58 in lieu of stringers	Double	7/8	3 1/2	Treble	7/8	3	lapped
					in way of painting.							
Upper Deck, Sheer-strake in Wells.....	92 7/8	.73	.46	.46					Quad	1	4	lapped
Upper Deck, Sheer-strake in Bridge ...												
Strake below Sheer-strake in Wells.....		.68	.46	.46		Double	7/8	3 1/2	Treble	7/8	3	lapped
Strake below Sheer-strake in Bridge ...												
Poop Side Plating.....			.40			Single	3/4	3	Double	3/4	2 5/8	lapped
Bridge Side Plating.....												
Forecastle Side Plating			.40			Single	3/4	3	Single	3/4	2 5/8	lapped

## WATERTIGHT BULKHEADS.

Total No. of **W.T. BULKHEADS** in Vessel— 8 *YBH for record*  
 Extending to Upper Deck (Sec. 3 c) 6 *see bulk plans*  
 Deck next below 10 *after peak, 1 AT frame 68.*  
 As per Rule 2 

## FORGINGS AND CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any Departure from Approved Plans to be Noted.
KEEL, Bar .....		✓		
STEM .....		<i>Rolled bar</i>	<i>10" x 2 1/2"</i>	✓
STERN FRAME {	Propeller Post .....	<i>Forged iron</i>	<i>10 1/2" x 8"</i>	✓ <i>C.M.E.N.</i>
	Rudder .....	" "	<i>10 1/2" x 8"</i>	✓
Speed of Vessel .....		<i>11 Knots</i>		✓
RUDDER—Type .....		<i>ordinary</i>		✓
" A x D. ....		<i>577.1</i>		
" Diam. of head .....		<i>Forged iron 11" + 10% = 11 5/8"</i>		✓
" Mainpiece at top pintle				
" " heel ..		<i>Fabricated Type</i>		✓
" how constructed .....				
" double or single plate		<i>double plate welded</i>		✓
" coupling, vertical or				
" horizontal .....		<i>Vertical Scarph</i>		✓

			STIFFENERS.				
			Plating Thickness.	VERTICAL.		HORIZONTAL.	
				Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP	BULKH'D,	Upper 'tween decks	.26	✓	Troughed	plates	✓
"	"	Second					
"	"	Third					
"	"	Holds	.34	✓	Troughed	plates	✓
COLLISION	(in Hold)		.52	✓	8x3x.40 J	6x3x.36	24" Semi Box Beam
AFTER PEAK			.46-.68	✓	30	3x3x.30	24" " " "

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Consalt Iron Co. Dorman Long, Cargo Fleet Iron Co. Skinningrove Iron Co.*

*South Durham Co.* *Steel made by Open Hearth Process. See Bill 5, 11, 45*

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



EQUIPMENT No. 40157

LETTER a+

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.
46809	1st Bower	Cwts. 68 qrs. 2 lbs. 14	Cwts. 68 qrs. 2 lbs. 14	Tons. 53 cwt. 3 qrs. 14	68	Byers Improved Type	hot Stated	See 24/11/44 J.W. Dony
46810	2nd	68 3 14	68 3 14	53 1 3 14	68	"	"	" 24/11/44 J.W. Dony
	3rd			53 5 0 0	58 3	"	"	"
	Collective weight				194-3-4	Ordinary Improved W. Anchor		Bradley Heath 23/7/45 W.V. Hornum
60392	Stream	19 0 7 4	3 4 19	19 2 21	194-3-4			

CHAIN CABLES. = 23-3-4

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.
40031	225 2 1/4	96 4 1/4	620 2 6	600 5/8	270 2 1/4	STUO Kendrick + Hale Ltd	Bradley Heath 24/7/45 W.V. Hornum	TOWLINE	120 4 3/4	64 6	120 4 3/4
								HAWSERS & WARPS	2-90 2 3/4	16 2	2-90 2 3/4
									2-75 3 1/4	21 7	2-75 3 1/4
									2-75 2 3/4	16 2	2-75 2 3/4
									90 4 3/4	64 6	90 4 3/4
									4-90 7		4-90 7
Iron Steam Chain or Steel Wire	90 5	52 8			90 5						

Steering Gear, Type (Power or hand) Messrs Doukin &amp; Co Steam &amp; Telemotor Control Alternative Means of Steering Blocks &amp; tackle to which

Steering Chains (Size and Test) Windlass Emerson Walker Ltd Boats 30-6 x 9-6 x 8-75

Ceiling in Holds, thickness and material 3" over bilges T.T. plating under hatchways 46" x 08" x 54" Cargo Batts, thickness, material and spacing hot fitted, Cleak

Cargo Hatchways. (Upper Deck) Plates &amp; angles Thickness of Hatches 3" for 30 tons

Size of Hatchways No. 1 (Fwd.) 31-6 x 23 No. 2 36-0 x 23 No. 3 36-0 x 23 No. 4 No. 5 36-0 x 23 No. 6 36-0 x 23

Number of Shifting Beams and/or Fore and Afters 6 7 7 7 7 7 7

Builder's Signature FOR WILLIAM GRAY &amp; CO. LIMITED.

Hos. S. Simpson.

GENERAL MANAGER

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 No  
be indicated, together with the flash point (where required to be inserted in the Notation).

This Vessel has been built in conformity with the Society's rules & regulations, and the Secretary's letters. The scantlings & arrangements are in accordance with, or equivalent to those shown on the approved plans. The materials and the workmanship are good. All Double Bottom tanks, peak tanks, deep tanks forward, aft, & in machinery space, and deep tank forward of boiler room, have been tested as required by the rules and found satisfactory. The weather decks, W.T. bulkheads, tunnel, W.T. bulkheads and W.T. doors in tween deck have been satisfactorily tested. The assigned freeboards have been marked on the vessel's sides, verified & cut in. The windlass & steering gear have been satisfactorily tested, under working conditions.

The requirements of Section 20 of the Rules for steel ships where applicable for the carriage of oil fuel having a flash point above 150°F, have been carried out.

Oil fuel carried in nos 2, 3, 4, 6, 7, D.B. tanks.

The amount of Entry Fee £10 0 0

Fees applied for, 25/9/45

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

Special Survey Fee and £480 8 2

Supervision of Specification

Received by me, 19

Travelling Expenses, if any £18 0 0

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

With Freeboard.

State whether the Vessel has been built under Special Survey YesSignature W.D. Johnston  
Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to W. Hpl. Date of issue 30/10/45

Committee's Minute 2 NOV 1945

Character assigned +100A1 with freeboard

Lloyd's A+C.P.

Fitted for oil fuel 9.45 F.P. above 150°F

+ LMC 9.45 Sph.

F.D. C.L.

note for S.R.L.

011227-011234-0343 2/2



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.)

Plans + forging reports attached.

This Vessel is fabricated and  
Centre girder + Keel plates

type design

Redpath + Brown

Intercostal frames

Fleming BR

Floors

Tank top plating.

2nd deck

upper

2nd deck longitudinal

Bulb angle intercostals

Hatch webs.

E + B Casings

Aft floor frames

Bulwarks

upper d<sup>e</sup> Girders + hatch end beams

Coastal beams

Centre line B<sup>HO</sup>

Bulkheads midships

Tank margins

2nd deck Girders + Hatch end beams

Shell plates (Steel)

Shell (curved)

Stringer angles

Side frames

upper d<sup>e</sup> longitudinal + Transverses

Tanks + Coal bunkers

Skylight

Hudson Brown

Cleveland BR

Ed. Wood

Horsley BR

Fairfield S + F

Palmer Hebburn

E + C J. Keay

C + W. Walker

B<sup>HO</sup> F + Aft

hills Deck Houses

Fore floor frames

Tunnel

Tank margin F + A

Provision store

Coal + Escape latches

Francis Hadden

Harvey Peers

John Booth

Thompson Dudley

1800

Burton Constr.

The scantlings of the cabin store space  
where forming the recessed centre part of  
the tweendeck bulkhead at frame 75 are equivalent  
to those required by the rules for watertight bulkheads.  
Tweendeck Bulkheads intact except  
bulkhead 75 which has a hinged  
W.T. door fitted P + S. and operable  
from both sides.

#### PARTICULARS OF ELECTRIC WELDING (if employed)

Transverse bulkheads welded to tank top + deck ✓  
Tank top plating welded. ✓ Floors + tank side brackets welded to margin plate.  
Tank side brackets welded to shell. Tunnel butts + seams welded. 2nd deck stringer  
check plates welded to stringer + shell. Butts of keel plating etc. welded.  
Approved welding rods used.

#### SPECIAL NOTATIONS:

Either as part of the vessel's class or for record in the Register Book. Cruiser stern. Lloyds A1CP. Two decks.  
D.F. ESD. 6 bulkheads to weather deck. 2 bulkheads to 2nd deck. Wood latches not  
fitted to has + 6 tweendeck latches. Longt framing at decks.  
(Fitted for Oil Fuel) F.P. above 150°F.

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

1st Bower	40-2-8	(JHJ) 6364	19/7/44
2nd	40-2-0	(JHJ) 6319	14/6/44
3rd			

#### PARTICULARS FOR RECORD in the REGISTER BOOK.

Length of Poop 31.5 ft. R.Q.D. ft. Bridge ft. Forecastle 38.0 ft.  
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated.

Official No. 180086

Signal Letters

Extreme Breadth over Belting

Over-all Length 448-11/2

No. and Material of Decks Two decks (steel)

Parts of Bottom of Vessel coated with cement or approved composition. Fore + after peaks + double bottom tank under Boilers  
cemented, Remainder of D.B. tanks cemented over rivet heads.

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.
Double bottom, aft,	Feet. 46	Tons. 247	Fore peak tank, LOWER	Feet. 23-3	Tons. 146
Double bottom, under Engines and Boilers,	45	182	After peak tank,	18-9	43
Double bottom, if under Engines only,			Deep tank, aft, NO8 D/B including Tunnel side tank	51	323
Double bottom, if under Boilers only,			Deep tank, forward, at wing P + S 114-121	15-9	282
Double bottom, forward,	205.5	808	Other tanks, if fitted, Cross Bunker 68-75	21-0	788
Total length (if continuous) and Capacity	316.5	1237	SIDE TANK ENG ROOM 21-0	161	
			(If necessary furnish further information by sketch.)	15-0	117

Order for Special Survey No.

Date 13.9.44

Dates of Surveys held while building

1944. Sept 11. 15. 19. 23. Oct 1. 6. 17. 30. Nov 10. 13. 15. 27. 29. Dec 5. 7. 15. 18. 27. 1945. Jan 6. 17  
29. Feb 13. 21. Mar 13. 18. 19. 23. Apr 5. 13. 18. 19. 30. May 4. 5. 10. 11. 14. 15. 17. 18. 22. 23.  
24. 25. 28. 29. 30. June 1. 2. 5. 8. 9. 11. 12. 13. 14. 15. 18. 19. 20. 21. 26. 28. 29. July 4. 6. 10. 11. 18. 26. 27. 30. 31  
August 2. 3. 4. 11. 12. 20. 21. 24. 25. 29. 30. Sept 4. 5. 6. 7. 10. 11. 12. 17. 18. 19. 20. 21. 22

Total No. of Visits 101