

STEEL STEAMER ~~OR~~ MOTORSHIP.

-5 NOV 1929

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

Port of *West Hartlepool*No. *16828*Survey held at *West Hartlepool*Date First Survey *9<sup>th</sup> April*Last Survey *23<sup>rd</sup> October 1929*

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

*Single screw**DUNELMIA**Machinery Amidships*

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

*Full scantling*State Type of Erections *Poop, Bridge & Fide*

TONNAGE under Tonnage Deck

*4929.39*CLASS *100A1*State if with freeboard as condition of Class *no*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) *421.00*Breadth (greatest moulded) *B 54.04*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 30.08*1st Longitudinal Number (L x D) *= 12664*2nd Numeral L x (B + D) *= 35415*Framing Depth "d," at middle of length. See Sec. 3 (1d) *26.25*Proportions—Depth to Length—Uppermost continuous deck to top of keel *14.00*Do. Long Bridge to top of keel *11.20*Draught Moulded *24.11 1/4*Launched *20<sup>th</sup> Sept 1929* Yard No *1028*Builders *W. Gray & Co. Ltd.*Owners *Metcalf, Son & Co. Ltd.*

Managers

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

Residence *West Hartlepool*Port of Registry *West Hartlepool*

If surveyed while building, afloat, or in dry dock,

*Whilst building and afloat.*

## REGISTERED DIMENSIONS.

FEET.

Length *421.30*Breadth *54.25*Depth *27.20*

## 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> .....	28	✓	<b>Bracket Floors, Frame</b> <i>BA. N.B.S.</i> .....	6 3 1/2 34	✓
" " from 1/3 length to Collision bulkhead.....	27 4 26	✓	" " Reversed Frame <i>BANBS.</i> .....	6 3 32	✓
" " in peaks.....	24	✓	" " Vertical Struts <i>one BA. N.B.S. 2 Channels</i> .....	6 3 32 10 x 3 1/2 x 3 1/2 x 42	✓
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b> .....	49 x 54	✓
Frame Amidships, Angle, [ <i>N.B.S.</i> 12 x 4 x 4 x 60 F ✓			" " top Angles .....	3 1/2 3 1/2 50	✓
" " Extends up to <i>upper 8" + 6 Br. 8" at Hatch Ends</i>			" " bottom Angles .....	4 4 56	✓
<b>Reversed Frame Amidships, Angle</b> .....	✓		<b>Side Girders, No. each side and thickness</b> .....	One 40	✓
" " Extends up to...	✓		<b>Margin Plate</b> depth (excl. of flange) and thickness .....	42 x 50	✓
<b>Depth of Framing Girder</b> .....	12		" " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem <i>Full depth</i> .....	6 6 42 7 3 1/2 42 6 x 3 1/2 x 42	✓
<b>Frames in Uppermost Continuous 'tween Decks, Angle, [ <i>N.B.S.</i> }</b>	6 3 1/2 32	<i>Scarp 18"</i>	" " Vertical Angle to Tank side Bracket forward 1/4 len. from stem .....	6 6 42	✓
" " <b>Second 'tween Decks, Angle, [ or [ }</b>	7 3 1/2 41	<i>for 4" Bridge Ends</i>	" " Gussets, spacing and scantling abaft 1/4 len. from stem.....	28 28 40 27 27 40	<i>On Every 3rd</i>
" " <b>Third " " " "</b>	✓		" " Gussets, spacing and scantling forward 1/4 len. from stem.....	27 27 40	<i>On every frame</i>
<b>Framing in Peaks, Angle or [ <i>N.B.S.</i> .....</b>	7 3 1/2 50	✓	<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b> .....	64 x 46 75 x 56	<i>in B.S. + Bunkers</i>
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b> .....	7/8" 6 1/8	✓	<b>INNER BOTTOM PLATING.</b>		
<b>State if Frame Joggled</b> .....	<i>yes</i>		Breadth and thickness of Middle Line Strake .....	51 1/2 x 50	✓
<b>PANTING ARRANGEMENTS</b> (Sec. 7), state system and particulars)	15 x 4 x 4 x 60 [ <i>Frame</i>		Thickness of remainder in Holds .....	42	✓
<b>STRENGTHENING OF BOTTOM FORWARD.</b> State Particulars .....	4 x 4 x 60 <i>rev. frames at alternate frames, 4 side stringers as per plan</i>		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?.....	<i>yes. + about 10% extra (Owner's extra)</i>	✓
<b>SINGLE BOTTOM.</b>			<b>BEAMS.</b>		
<b>Floors, Depth and thickness at mid-line in Holds</b> .....			<b>Uppermost Continuous Deck, amidships in Wells, Angle, [ <i>N.B.S.</i> }</b>	11 3 1/2 40 11 3 1/2 42	<i>For well after well</i>
Height of Brackets at side above base line at toe of frame .....			" " in way of Bridge, Angle, [ <i>N.B.S.</i> }	10 3 1/2 52 7 3 42	
<b>Middle Line Keelson, on Floors, Angles, [ or [ }</b>			Spacing .....	27 28	<i>For well after well</i>
" " " Through Plate or Intercostal Plate.....			<b>Second Deck, amidships, Angle, [ or [ }</b>		
" " " Foundation Plate on Floors .....			Spacing.....	✓	
" " " Flat Plate Keel Angles			<b>Third Deck, amidships, Angle, [ or [ }</b>		
<b>Side Keelsons, No. each side</b> .....			Spacing.....	✓	
" " thickness of Intercostal Plate...			<b>Fourth Deck, amidships, Angle, [ or [ }</b>		
" " Angles .....			Spacing.....	✓	
<b>DOUBLE BOTTOM.</b>			<b>Poop Deck, Angle, [ <i>N.B.S.</i> }</b>	7 3 37	
<b>Solid Floors, thickness and spacing</b> .....	40 @ 84"	✓	Spacing.....	28 x 24	
" " Are Frame and Reversed Frame joggled?.....	<i>yes</i>		<b>Bridge Deck, Angle, [ <i>N.B.S.</i> }</b>	7 3 1/2 33 9 3 1/2 38	
<b>Bracket Floors, breadth and thickness at middle line.....</b>	32 1/2 x 40	✓	Spacing.....	28	
" " breadth and thickness at margin plate.....	30 x 40	✓	<b>Forecastle Deck, Angle, [ <i>N.B.S.</i> }</b>	11 3 1/2 47 9 3 38	
			Spacing .....	54, 52, 48	



PILLARS AND DECKS.

[illegible]

SCANTLINGS

SHELL PLATING.

STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		RIVETING.					
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	SINGLE OR DOUBLE.	RIVETS.		No. of Rows of Rivets.	BUTTS.		STRAPPED OR LAPPED.
	Breadth. Inches.	Thickness. Inches.	Thickness. Inches.	Thickness. Inches.				Diam. Inches.	Spacing cr. to cr. Inches.		Diam. Inches.	Spacing cr. to cr. Inches.	
FLAT PLATE KEEL .....	50	.80	.72	.69	✓								
" DBLG. (if any)	✓	✓	✓	✓									
BOTTOM PLATING, No. of Strakes .....	4 @ 70½	.61	.62 .52 .62 .48	.48 .50 .50	✓	Double	7/8	3½	4	1	4	Lapped	✓
BILGE PLATING, No. of Strakes .....	1 @ 70½	.61	.48	.50	✓	Double	7/8	3½	4	7/8	3½	Lapped	✓
SIDE PLATING, No. of Strakes .....	3 @ 71	.61	.46	.46	✓	"	"	"	4	"	3½	"	✓
UPPER DECK, Sheer-strake in Wells.....	70	1-26 AFT	1-17 For	6-62 Endo.	✓	"	"	"	3	"	3½	"	✓
UPPER DECK, Sheer-strake in Bridge ...	69	.61				"	"	"	4	"	3½	"	✓
STRAKE BELOW Sheer-strake in Wells.....	71	.72 A .63 F	.57	.57		"	7/8	3½	3	7/8	3½	"	✓
STRAKE BELOW Sheer-strake in Bridge ...	71½	.61				"	7/8	3½	4	"	3½	"	✓
POOP SIDE PLATING .....	78					"	7/8	3½	3	"	3½	"	✓
BRIDGE SIDE PLATING ...	90	.61	.38	.61	✓	Single	¾	3	1	¾	2 5/8	"	✓
FORECASTLE SIDE PLATING 2 @	50		.42		✓	Double	7/8	3½	4	7/8	3½	"	✓
						Single	¾	3	1	¾	2 5/8	"	✓

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck—

8

FORGINGS and

WATERTIGHT BULKHEADS.

BULKHEADS.	
Total No. of <b>W.T. BULKHEADS</b> in Vessel—	
Extending to Upper Deck (Sec. 3 c)	8
" Deck next below	8
As per Rule	✓
	7

3/4  
FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar .....				
STEM .....		✓		
STERN FRAME {	Propeller Post .....	Rolled	10 x 2 1/2	Lanarkshire Stl Works
	Rudder " .....	Forging	10 1/2 x 7 7/8	Central
RUDDER—A x D .....			9 x 7 7/8	Marni E. Works.
Speed of Vessel .....			507.5	
RUDDER mainpiece at head ...			10 1/4	
" " heel ...			10 1/8	
" how constructed .....			7 5/8	
" double or single plate			Forged + Built	
" coupling, vertical or horizontal .....			1.04 thick	
			Vertical	

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Plakio:- South Durham S & G Co*

Angles:- *large flat Iron Co*

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

*Dorman Long & Co Ltd*  
*consort Iron*

*single plate*  
*coupling, vertical or*  
*horizontal*

*1.04 thick*  
*Vertical*

*S.M. open-Hearth*  
*South Durham S & G Co*



EQUIPMENT No. 37472										LETTER Z		ANCHORS.									
Any Department of Approved Plate. be Note		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.	Cwts.							
49		1st Bower ...		64	-	-	Stockless			50	10	-	-	63 3/4		Byers Improved		W. Byers		Sld. 3-10-29 Butler	
48		2nd „ ...		63	3	-	"			50	7	2	-	63 3/4		do		do		Sld 3-10-29 "	
34		3rd „ ...		54	2	7	"			45	2	3	7	54 1/2		do		do		Sld 27-9-29 "	
		Collective weight.		182	1	7							182								
12		Stream .....		17	3	7	4	2	7	18	18	0	14	17 1/2		Common		R Sykes		Sld 9-8-29 Butler	

CHAIN CABLES.										HAWSERS AND WARPS.									
ber of dicate.	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.	Cir.		Length.	Cir.
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
403	270	2 1/4	9 1/8	12 1/2	692	0	7	682 1/2	270	2 1/4	Shud Jais R. Sykes	Sld. 9-8-29 Butler.		TOWLINE...	120	5	73	120	5
														HAWSERS & WARPS	4 @ 90	3	18	2 @ 90	2 3/4
															"	4 @ 90	7" Manila	2 @ 90	2 1/2
Stream	90	4 3/4	65 1/2						90	4 3/4	Glaholm Robson	Sunderland.							

35	steering Gear, Steam	John Lynn 16" Horizontal 10" x 10"	Steering Gear, Hand	Jackee & after Steam winch	Secondary means of Steering. Suitable							
	Boats	2 @ 27 lifeboats	Steering Chains, Size and Test	17/16 24-15-0-0 29599	Windlass Emerson Walker 9 3/4 x 12 1/2							
30	Ceiling in Holds, thickness and material	3" under hatches & over Bilge	Cargo Battens, thickness, material and spacing	29600 LPHCH. PAUL	6 x 2 @ 9" spacing							
60	Cargo Hatchways.-(Upper Deck)	Steel Plates & Angles as approved	Thickness of Hatches	2 3/4"								
60	Size of No. 1 Hatchway (Forward)	29-3 x 20'	No. 2	30-4 x 20'	No. 3	8-8 x 10-8 x 20'	No. 4	30-4 x 20'	No. 5	30-4 x 20'	No. 6	18-8 x 20'
	Number of Shifting Beams and/or Fore and Afters	No. 1 Five, No. 2 Five, No. 3 One,	No. 4 Two, No. 5 Five,	No. 6 Three, No. 7 One	Per William Gray & Co., Limited.							

Builder's Signature *Thos. S. Simpson* General Manager.

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel no (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.

This vessel has been built in accordance with the Rules, the approved plans and the Secretary's letters. The materials and workmanship are good.

The double bottom tanks and fore and after peak tanks have been tested under the Rule pressure and found satisfactory

The watertight doors, steering gears and windlass have been examined and tried under working conditions & found satisfactory

The weather decks, bulkheads, watertight doors & tunnel have been satisfactorily hose tested.

The freeboards have been cut in on the vessel's sides and verified.

The vessel is fitted with electric light, "wireless" & Directional "wireless"

The boiler room double bottom tank is a dry tank; It has been tested. It's length is included and it's capacity omitted overhead

The amount of Entry Fee ..... £ 9 : 0 : 0 Fees applied for, 1-11-1929

Special Survey Fee .... £ 330 : 3 : 6 Freeboard 9 : 3 : 4 Received by me, 11-12-29

Travelling Expenses, if any £ : : :

I am of opinion the Vessel should be Classed 100 A1

State whether the Vessel has been built under Special Survey yes. Signature *C. A. Millar*

Certificate to be sent to WEST HARTLEPOOL Date of issue 12/12/29

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 8 NOV 1929

Character assigned + 100 A1

*Lloyd's A & C + L. MC 10-29*

*My*

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011149-011160-0215 1/2



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.)

Sister Vessels  
S/S HERONSPOOL HPL RPT 16761  
S/S HAXBY " " 16773  
S/S SWIFTPOOL " " 16799

Plans now forwarded

Midship Section  
Profile & Decks  
Fore & after Peak bulkheads  
Hatchways girders & pillars  
Part plan of Tunnel  
Bottom stiffening forward  
Alternative arrangement of Hatch sides & girders  
Pumping arrangements  
Top side plating  
Screw down Scupper for Bridge Tween Decks  
Stiffener Connections etc w/T BHD 107  
Stemframe & Rudder  
Quadrant  
Also Forging Reports, on Stemframe & Rudder & Certificate of Stem bars

Girders fitted under Bridge Deck P & S. 16-10 from centre line from ft 52 to 74; 82 to 118  
(in feet and tenths). These girders are cranked from 110 to 112 from 16-10  
Scantlings :- Girders 13" x 40 plates: 7 x 3 1/2" x 40 BA Gage Bar  
intercostal angles 5" x 5" x .40

Girders port & starboard  
10'-0" from centre line from frame 69 to 124  
Girders 15" x .40 flanged 6" on lower edge  
Lugs to beams 3 1/2" x 3 1/2" x 40 single carried down to 6" flange on  
alternate beams

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

1st Bower	39-3-21	M.B.	6849	29-8-29	Düsseldorf
2nd "	39-3-0	M.B.	6881	29-8-29	
3rd "	34-3-7	K.H.	6827	15-8-29	

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 29.7 ft., R.Q.D. ✓ ft., Bridge 240.0 ft., Forecastle 42.7 ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated not joined

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 1 DK (Stl)

Official No. 160763 ; Signal Letters

particulars of composition Is bottom of Vessel coated with cement yes if not give

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	147	564	Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,	24.0	175
Double bottom, if under Engines only,	25.8	127	Deep tank, aft,	22.0	167
Double bottom, if under Boilers only, Dry Tank, Fitted	18.8		Deep tank, forward,		
Double bottom, forward,	179.5	722	Other tanks, if fitted,		
	Total capacity of double bottom	1413	(If necessary, furnish further information by sketch.)		

\* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 2360

Date

21.3.29

Dates of Surveys  
held while building

1929.  
Apr. 9. 11. 17. 24. 26. 29. May. 1. 9. 13. 16. 23. 29. 30. June 11. 13. 19. 24. 26. July 1. 4. 8. 9. 10. 15. 19. 22. 24. 25. 26. 31. Aug 2. 6.  
12. 15. 16. 19. 21. 22. 23. 24. 28. 30. Sep. 3. 5. 11. 19. 20. Oct. 1. 4. 7. 8. 15. 21. 22. 23.

Total No. of Visits 25