

Spar, or Awning Dk.

IRON OR STEEL STEAMER.

No. 12566

WUIN. 15 MAR 1909

Port of

Leith

Date of completion of Report

12<sup>th</sup> March 1909

Received at London Office

Survey held at

Grangemouth

Date, First Survey

28<sup>th</sup> September 1908

Last Survey

11<sup>th</sup> March 1909

1909

On the

S. S. "Ketravati"

Rig Free + Off Schooner

TONNAGE under Tonnage Deck

1399.29

Do. between Tonnage Dk. and 3rd, 4th, Spar or Awning Dk.

Total under Upper Dk.

No. of Poop

No. of Bridge House

Do. of Forecasts

Do. of Houses on Deck

Do. of excess of Hatchways

Do. above Crown of

Engine Room

Gross Tonnage

Less Crew Space

Less above Crown of

Engine Room

TONNAGE FOR FEES

Less Engine Room

Less Navigation Spaces

Register Tonnage

as cut on Beam

SPAR, ~~AWNING OR PART AWNING~~ DECKED VESSEL,

or a Vessel having a continuous Shade Deck.

CLASS + 100 A / Spar Dk.

FEET.

Half Breadth (moulded)

18.0

Depth from upper part of keel to top of Main Deck Beams

15.83

Girth of Half Midship Frame (as per Rule)

31.09

1st Number

64.92

Length

244.66

2nd Number

15883

Proportions—Breadths to Length

6.79

Depths to Length—Main Deck to top of Keel

15.45

Destined Voyage

Bombay

If Surveyed while Building, Afloat, or in Dry Dock

Yes

Master

Year of Appointment

Built at

When built

By whom built

Owners

Managers

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

Residence

Port belonging to

LENGTH on Deck as per Rule	FEET.	INCHES.	BREADTH—Moulded	FEET.	INCHES.	DEPTH, top of Floors to Spar or Awning Dk. Beams	FEET.	INCHES.	Power of Engines	Horse.	No. of Decks with flat laid	No. of Tiers of Beams
244	8		36	0		14	14	12			Two	Two

Dimensions of Ship per Register, Length 246.8 breadth 36.2 depth 15.55 Spar or Awning Dk. Moulded depth, ft. 15 ins. To Main Dk. Round up of Beam, Main Dk. 10 1/2 ins.

FRAMING.							FORGINGS AND CASTINGS.						
	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	20ths per Rule Or as Approved.		Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.	20ths per Rule Or as Approved.		
FRAME, Angles, or Bars, for 1/2 length amidships	4	3	7	4	3	7	KEEL, Bar or Side Plates, depth and thickness	8 1/2 x 2 3/8	8 1/2 x 2 3/8	8 1/2 x 2 3/8	8 1/2 x 2 3/8		
Do. for 1/2 at each end			6			6	STEM, moulding and thickness	8 x 2 3/8	8 x 2 3/8	8 x 2 3/8	8 x 2 3/8		
Do. in way of Double Bottoms at Solid Floors							STERN-POST for Rudder do. do.	8 x 5	8 x 5	8 x 5	8 x 5		
							" " for Propeller	8 x 5	8 x 5	8 x 5	8 x 5		
Distance "of Frames from moulding edge to moulding edge, all fore and aft	5	3	23	5	3	23	MAIN PIECE of Rudder, diameter at head	6 3/4	6 3/4	6 3/4	6 3/4		
REVERSED FRAME, Angles	5	3	7 1/2	5	3	7 1/2	do. at heel	5	5	5	5		
DEEP FRAMING, depth of girder			6			6	RUDDER, how constructed	Forging single plate 19/20					
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	5 1/2	3 1/2	22	10	22	10	Can the Rudder be unshipped afloat?	Yes					
" in way of Engines and Boilers	5 1/2	3 1/2	22	10	22	10	KEELSONS AND STRINGERS.						
" thickness at the ends of vessel	1 1/2	1 1/2	8			8	CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate	16	12-10	16	12-10		
" depth at 1/2 the half-bdth. as per Rule	1 1/2	1 1/2	8			8	" Rider Plate	12	12-11	12	12-11		
" height extended at the Bilges	4 1/2	4 1/2	44			44	" Bulb Plate to Intercoastal Keelson						
FLOORS & BRACKETS, in Cell Dble Bottoms							" Horizontal Plates on Floors	5 1/2	4	9-8	5 1/2	4	9-8
CENTRE GIRDER, in Double bottom, depth and thickness							" Angles	5 1/2	4	9-8	5 1/2	4	9-8
" Angles, Top							SIDE KEELSON, Angles	5 1/2	4	9-8	5 1/2	4	9-8
" Angles, Bottom							" Bulb or Plate above floors, for full length	4 1/2	4	9-8	4 1/2	4	9-8
SIDE GIRDERS, number and thickness							" Intercoastal Plate, for practicable length	3	3	6	3	3	6
" Angles							" Attached to outside plating with Angle	3 1/2	3 1/2	6	3 1/2	3 1/2	6
MARGIN PLATE, depth (exclusive of flange) and thickness							BILGE KEELSON, Angles	5 1/2	4	9-8	5 1/2	4	9-8
" Angles							" Bulb or Plate above floors, for 3/5 length	4 1/2	4	9-8	4 1/2	4	9-8
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake							" Intercoastal Plate, for 3/5 length	3 1/2	3 1/2	6	3 1/2	3 1/2	6
" thickness in Engine and Boiler space							" Attached to outside plating with Angle	3 1/2	3 1/2	6	3 1/2	3 1/2	6
BEAMS, Spar or Awning Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	8	5 1/2	9	8	5 1/2	9	BILGE STRINGER Angles	5 1/2	3 1/2	8	5 1/2	3 1/2	8
" Angles on upper edge							" Bulb Plate, for full length	6 1/2	7-6	6 1/2	7-6		
" Average space	9	4 1/2	10	9	4 1/2	10	" Intercoastal Plate, for full length	6	3 1/2	7	6	3 1/2	7
BEAMS, Main Deck, Single Angle, Bulb Angle, Plate or Tee Bulb	6 1/2	3	9	6 1/2	3	9	" Attached to outside plating with Angle	6	3 1/2	7	6	3 1/2	7
" Angles on upper edge							SIDE STRINGER Angle	5 1/2	3 1/2	8	5 1/2	3 1/2	8
" Average space	46					46	" Bulb or Intercoastal Plate, for full length	6	6 1/2	7-6	6	6 1/2	7-6
BEAMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb							" Attached to outside plating with Angle	6	3	7	6	3	7
" Angles on upper edge							Spar, or Awning Deck Stringer Plates, breadth and thickness	35-9/16 x 28-7/8	35-9/16 x 28-7/8				
" Average space							" Angle on ditto	4 x 4 8-7	4 x 4 8-7				
BEAMS, Hold, or Orlop, Plate or Tee Bulb							" Tie Plates, fore and aft, outside Hatchways						
" Angles on upper edge							" Diagonal Tie Plates, No. of prs.						
" Average space							Deck * Iron or Steel, for full length	6					
BEAMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	4	3	6	4	3	6	Wood Deck, Material & thickness	Teak 2 1/2	Teak 2 1/2				
" Angles on upper edge							Main Deck Stringer Plate, breadth & thickness	59-9/16 x 25-3/8	59-9/16 x 25-3/8				
" Average space	46					46	" Angles on ditto, No.	3 1/2 x 3 1/2	3 1/2 x 3 1/2				
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb							" Tie Plates, outside Hatchways	12	9-8	12	9-8		
" Angles on upper edge							" Diagonal Tie Plates, No. of prs.						
" Average space							Deck * Iron or Steel, for full length	7-6					
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb							Wood Deck, Material & thickness	Teak P. 3 1/2	Teak P. 3 1/2				
" Angles on upper edge							Lower Deck Stringer Plates, br'dth & thck'n's						
" Average space							" Angles on ditto, No.						
PILLARS, In 'tween Deck, size and spacing	4	2 1/4	3 1/4	4	2 1/4	3 1/4	" Tie Plates, outside Hatchways						
" Hold							Deck * Material and thickness						
" Quarter, 'tween Dks., "							Hold, or Orlop Stringer Plate, br'dth & thck'n's						
" in Hold							" Angles on ditto, No.						
WEB-FRAMES, In Fore Body, No. and spacing							" Tie Plates, outside Hatchways						
" br'dth. & thickness							Deck, Material and thickness						
" No. of Side Stringers							Poop Deck Stringer Plate, breadth & thickness						
WEB FRAMES, In E. & B. Space, No. & spacing							" Angles on ditto						
" br'dth. & thickness							" Tie Plates						
" No. of Side Stringers							Deck, Material and thickness						
WEB FRAMES, In After Body, No. and spacing							Bridge Deck Stringer Plate, br'dth & thickness	24	6	15	6		
" br'dth. & thickness							" Angle on ditto	8	6	8	6		
" No. of Side Stringers							" Tie Plates	2 1/4		2 1/4			
" Size of Angles or Tee Bars to Web Frames							Forecastle Deck Stringer Plate, br'dth & th'kns						
BRACKET PLATES to Stringers between Web Frames, depth and thickness							" Angle on ditto						
							" Tie Plates						
							Deck, Material and thickness						

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\* If Iron or Steel Deck, state if whole or part, and if wood deck is laid thereon.

BULKHEADS.

Number.

In Vessel.

Per Rule.

Thickness.

Horizontal.

Vertical.

Spacing.

Single or Double Frames.

Height up.

W. T. BULKHEADS

PARTITION

LONGITUDINAL

Are the outside Plates doubled two spaces of Frames in length?

No. Backs fitted to Stringers



PLATING.

RIVETING.

STRAKES.	AS IN SHIP.						PER RULE OR AS APPROVED.		EDGES. <i>namay</i>				BUTTS.							
	AMIDSHIP.		FORWARD.		AFT.		AMIDSHIP.		Single or Double.	Breadth of Lap.	RIVETS.		Double or Treble and for what Length.	RIVETS.		STRAPS.		IF LAPPED.		
	Breadth.	Thickness.	Thickness.	Thickness.	Breadth.	Thickness.	Diam.	Spacing cr. to cr.			Diam.	Spacing cr. to cr.		Breadth.	Thick-ness.	Breadth.	For what Length.			
<b>Flat Plate Keel</b> .....	Inches.	<del>12</del> 12 1/2	12 1/2	12 1/2	12 1/2	12 1/2	Inches.	<del>12</del> 12 1/2	<i>Reka</i>	Inches.	Inches.	Inches.		Inches.	Inches.	Inches.	Inches.	Inches.	Feet.	
<b>Bar Keel, state Riveting</b> }									<i>Double</i>											
<b>GARBOARD OR A Strake</b> ...	42	11	11	11	42	11				8 1/2	1 1/2	55/8								
State actual	B	60	10	8	8	60	10			5 1/4	7/8	3 7/8	<i>Full 1/2 L</i>	7/8	3 1/8	16 3/4	11/20	—	—	
thickness in	C	60	10	8	11	60	10			4 1/2	3/4	3 3/8	"	"	"	+	—	12+9	1/2 L	
way of Double	D	52	10	9	9	52	10			"	"	"	"	"	"	+	—	"	"	
Bottom.	E	52	10	9	9	52	10			"	"	"	"	"	"	+	—	"	"	
	F	50	10	8	8	50	10			"	"	"	"	"	"	+	—	"	"	
	G	60	10	8	8	60	10			"	"	"	"	"	"	+	—	"	"	
<i>Main Strake</i>	H	48	10	8	8	48	10			"	"	"	"	"	"	+	—	"	"	
<i>Sheerstrake</i>	J	51	10	10	8	51	10			"	"	"	"	"	"	+	—	9	"	
<i>Star Strake</i>	K	40	13	8	9	40	13			5 1/4	7/8	3 7/8	"	"	"	+	—	"	"	
<i>Sheerstrake</i>	L															+	—	"	"	
	M																			
	N																			
	O																			
	P																			
	Q																			
<i>(Plating about 16' long 8' space)</i>																				
<b>DOUBLING of Flat Plate Keel</b>																				
Length and thickness { of Bilges .....																				
{ of Sheerstrakes .....																				
{ of Strake below .....																				
<b>POOP SIDES</b> .....																				
<b>BRIDGE SIDES</b> .....																				
<b>FORECASTLE SIDES</b> .....																				

Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c.?  
*The Glasgow Iron & Steel Co. Ltd.*  
*David Colville & Sons Ltd. The Steel Co. of Scotland Ltd.*  
*Wm. Beardmore & Co. Ltd. The Lancashire Steel Co. Ltd.*  
*Siemens Process*

Spar or Lining Butts, treble riveted for  $\frac{1}{2}$  length amidship.  
 Stringer Plate Butts, single, double or overlapped for *full* length amidship.  
 Main Stringer Plate Butts, treble riveted for  $\frac{1}{2}$  length amidship.  
 Butts of Bilge & Side Stringers and Tie Plates, treble or double riveted? *double*  
 Inner Bottom Plating, riveting of Edges Butts  
 Centre Girder Butts, riveted Keelson Butts, *treble* riveted.  
 Frames, riveted through Plates with  $\frac{3}{4}$  in. Rivets, about  $\frac{5}{4}$  apart.  
 Rivets, state whether Iron or Steel *Iron*

FRAMES extend in one length from *Centre of ship to Main + Spar Deck alternately*  
 REVERSED FRAMES on floors and frames extend from *Centre of ship to Main + Spar Deck alternately*

MASTS, SPARS, &c.

LOWER MASTS....	Material.	Total Length	DIAMETER AND THICKNESS.				No. of Plates in round.	ANGLES.		RIVETING.	
			At Partners.	Heel.	Hounds.	Head.		Number.	Size.	Seams.	Butts.
Fore	<i>Steel</i>	<i>57.10</i>	<i>19 x 7/20</i>	<i>18 x 7/20</i>	<i>15 x 6/20</i>	<i>13 x 1/2</i>	<i>Two</i>	<i>none</i>	<i>none</i>	<i>single</i>	<i>treble</i>
Main	<i>Steel</i>	<i>51.1</i>	<i>19 x 7/20</i>	<i>18 x 7/20</i>	<i>15 x 6/20</i>	<i>13 x 1/2</i>	<i>Two</i>	<i>none</i>	<i>none</i>	<i>single</i>	<i>treble</i>
Mizen											
Bowsprit											
Topmasts, Yards and Remainder of Spars	<i>Work O.P.</i>										
Rigging, Material and Size, Shrouds	<i>2 3/4 Galv. steel wire</i>										
Sails.	<i>One</i>	Suit of <i>Canvas 42 2</i>	Sails, and the following spare sails				<i>none</i>	<i>3 1/2 Galv. wire Bolestays 2 1/4</i>			

EQUIPMENT No. 19511 LETTER P. ANCHORS.

Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.				WEIGHT REQ. BY RULE.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.			
11561	1st Bower	30	2	21	Stockless	29	3	3	0	30	2	0	0	0	<i>Byers Hookless</i>	<i>✓</i>	<i>Hunderland 29.1.09 H.F. Reef</i>
11560	2nd "	30	2	0	do	29	0	0	0	30	2	0	0	0	do	<i>✓</i>	do
11554	3rd "	26	1	4	do	25	18	0	14	26	0	0	0	0	do	<i>✓</i>	" 29.1.09 "
	Collective weight	84	2	0		84	0	0									
11528	Stream	4	3	0	2	0	0	9	18	0	14	4	3	0	<i>Common</i>	<i>Ham. Taylor &amp; Sons</i>	<i>Hunderland 18.1.09 H.F. Reef</i>
11524	Kedge	4	1	0	1	0	14	6	12	2	0	4	1	0	do	<i>do</i>	do
11444	2nd Kedge	2	1	0	0	2	14	4	15	0	0				do	<i>do</i>	" 21.12.09 "

CHAIN CABLES.

HAWSERS AND WARPS.

Number of Certificate.	Fathoms.	Size.	Test per Certificate Tons.	WEIGHT OF CHAIN CABLE.		Fathoms and Size Per Rule.	Description.	Makers of Cables.	When and where tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathoms and Size Per Rule.
				Supplied.	Per Rule.									
4082	300	1 5/8	47 1/2	400-3.7	319.1.14	240-1 5/8	<i>This link</i>	<i>Ham. Taylor &amp; Sons</i>	<i>18.1.09 Hunderland H.F. Reef</i>	TOWLINE	90 fms	5/4	22	90 fms 3/4
4098	75	1	18	39.0.20	38.1.0	45-1	do	do	do	HAWSER	20	90	8 1/2	90-6
										WARP	20	90	5	90-5

Boats *6 Boats*  
 Pumps, Number *4*  
 Windlass is *Ham Napier Bros Ltd Glasgow*  
 Engine Room Skylights.—How constructed? *Leath with bulls eye light*  
 What arrangements for deadlights in bad weather? *Tarpaning covers*  
 Coal Bunker Openings.—How constructed? *Cast iron jigs with* How are lids secured? *Bayonet joints* Height above deck? *Flush*  
 Number of Scuppers, and number and dimensions of Freeing Ports, &c. *Four each side*  
 Ceiling in Holds, thickness and material *2 1/2 Pitch Pine*  
 Cargo Hatchways.—How formed? *Steel Coaming*  
 State size No. 1 Hatch (Forward) *11.6 x 9.6* No. 2 Hatch *15.4 x 12.6* No. 3 Hatch *11.6 x 9.6* No. 4 Hatch *11.6 x 9.6*  
 Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *9.1 Hatch 4 1/2 3 one fore + after P.P. 9.2 Hatch one shifting beam 11.6 x 3 fore + after P.P.*  
 Bulwarks, height above deck and description *Open Rails*  
 The above is a correct description *THE GREENOCK AND GRANGEMOUTH DOCKYARD CO., LD.*  
 Builder's Signature (here only) *A.P. Jackson*  
 Surveyor's Signature *J. W. Anderson*  
 Surveyor to Lloyd's Register of British & Foreign Shipping.



Correspondence.—State dates and initials of letters respecting this case (Reference should be made to any correspondence connected with this case) M 25<sup>th</sup> August 08 6444  
M 25<sup>th</sup> August 1908. M 31<sup>st</sup> August 08 6444 M 2<sup>nd</sup> Sept 08. M 2<sup>nd</sup> Sept. 6444 M 10<sup>th</sup> Sept. 6444 M 17<sup>th</sup> Sept. 1908 M 19. 10. 08. E 28. 10. 08 M 26. 10. 08. M 13. 11. 08 M 14. 11. 08 M 16. 11. 08 E 27. 11. 08

Workmanship. Are the butts of plating planed or otherwise fitted? *planed*  
Is the riveted work properly closed? *No*  
Are the liners between the frames and plates solid single pieces? *Yes* Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other? *No* Are the rivet holes well and sufficiently countersunk in the plate and punched from the faying surfaces? *No* Do any rivets break into or through the seams or butts of plating? *A few*  
Are the butts of Plating, Stringers, &c., properly shifted and strapped? *No*  
General Remarks (State quality of workmanship, &c.) *The workmanship and materials are good*

*This vessel has been built in accordance with the approved plan of Midship section forwarded to London on the 8<sup>th</sup> March 1909 and in conformity with the Rules*

*Plans of Profile, Pumping, Stem post & Rudder together with two forging reports are herewith inclosed*

*Not a sister vessel*

The Surveyor should state the Number of Report and Name of any Sister Vessel.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. or Break ☒ ft., Bridge Dk. ☒ ft., F'castle ☒ ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated ☒

No. and Material of Decks (~~if Iron or Steel~~) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as it should appear in the Register Book) *Two Dks (Pl - 4 Ticks) & deep framing & two tier of beams*  
Official No. ....; Signal Letters  
How are the surfaces preserved from oxidation? Inside *Paint & Cement* Outside *Paint*

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system *(No Ordinary floors)*

Where fitted.	Length. Feet.	Water Capacity. Tons.	Where fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,	<i>20.5</i>	<i>58</i>
Double bottom, forward,			After peak tank,	<i>23.0</i>	<i>62</i>
Double bottom, under Engines and Boilers,			Midship deep tank,		
Double bottom, if under Engines only,			Other tanks, if fitted,		
Double bottom, if under Boilers only,			(If necessary, furnish further information by sketch.)		

State whether the above have been tested as required by the Rules *Yes*

Order for Special Survey No. *907*  
Date *30<sup>th</sup> October 1908*  
Order for Ordinary Survey No. ☒  
Date ☒  
No. *310* in builder's yard.  
1st. On the several parts of the frame, when in place, and before the plating was wrought *1908 Sep 28<sup>th</sup> Oct 2<sup>nd</sup> 6<sup>th</sup> 16<sup>th</sup> 21<sup>st</sup> 27<sup>th</sup> Nov 3<sup>rd</sup> 10<sup>th</sup> 18<sup>th</sup> 23<sup>rd</sup> Dec 1<sup>st</sup> 7<sup>th</sup> 11<sup>th</sup> 15<sup>th</sup>*  
2nd. On the plating during the process of riveting *18<sup>th</sup> 22<sup>nd</sup> 23<sup>rd</sup> 29<sup>th</sup> 1909 January 7<sup>th</sup> 11<sup>th</sup> 13<sup>th</sup> 15<sup>th</sup> 19<sup>th</sup> 22<sup>nd</sup> 25<sup>th</sup>*  
3rd. When the beams were in and fastened, and before the decks were laid ..... *28<sup>th</sup>*  
4th. When the ship was complete, and before the plating was finally coated or cemented ... *February 1<sup>st</sup> 5<sup>th</sup> 8<sup>th</sup> 10<sup>th</sup> 12<sup>th</sup> 16<sup>th</sup> 22<sup>nd</sup> 24<sup>th</sup> March 1<sup>st</sup> 2<sup>nd</sup>*  
5th. After the ship was launched and equipped *9<sup>th</sup> 11<sup>th</sup>*  
Total No. of Visits *38*

The amount of Entry Fee..... £ *4 : 0 : 0*  
Special Survey Fee..... £ *59 : 13 : 0*  
Traveling Expenses, if any £ *6 : 18 : 0*  
Fees applied for, *15/5/1909*  
Received by me, *18/3/09*

Certificate to be sent to *Lark*

am of opinion this Vessel should be Classed  
With, or without Freeboard, as condition of Class

*100 H/L Spar Deck*  
*With*

*J M Anderson*  
Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute  
Character assigned

*TUES 16 MAR 1909*

*100A1*

*spar dk with ftd 5. 3. 8 1/2*

*Lloyd's A & B. P.*

*unice Lark (som)*

*W.*

*+ Lark 3.09*  
*elec. light*

*16/3/09*

*Cash on Bill to Builders Guild as regards*  
*Marby & Co. 1909*

002194-002205 00517/2