

# Awning Dk. STEEL STEAMER.

No. 6524

1025.27 OCT 1908

Port of *Belfast* Date of completion of Report *26th Oct 1908* Received at London Office  
 Survey held at *Belfast* Date, First Survey *5th Jan 1905* Last Survey *19th October 1908*  
 On the *Steel Twin Screw Steamer "TAINUI"* Rig *fore & aft schooner*

TONNAGE under Tonnage Deck...  
 Do. between Tonnage Dk. and 3rd, 4th, Spar or Awning Dk.  
 Total under Upper Dk. *1113.59*  
 Do. of Poop  
 Do. of Bridge House  
 Do. of Forecasts  
 Do. of Houses on Deck  
 Do. of excess of Hatchways  
 Do. above Crown of Engine Room  
 Gross Tonnage *9956.93*  
 Free Space *395.44*  
 Net Tonnage *9561.49*  
 AGE FOR FEES... *9561.49*  
 Engine Room *3186.22*  
 Navigation Spaces *87.21*  
 Net Tonnage *6288.26*

AWNING ~~DECK~~ DECKED VESSEL, Master *J. Maxwell*  
 or a Vessel having a continuous Shade Deck. *70.8*  
 CLASS *100 A*  
 Year of Appointment *(1) As Master in service of owner of present vessel - 18 (2) As Master of this vessel - 18*

Half Breadth (moulded) *30.37* Built at *Belfast*  
 Depth from upper part of keel to top of Main Deck Beams *35.26* When built *1908-10* Launched *14 Sept 1908*  
 Girth of Half Midship Frame (as per Rule) *60.68* By whom built *Wickman Clark & Co Ltd.*  
 1st Number *126.31* Owners *Shaw Saville & Albion Co Ltd.*  
 Length *474.92* Managers  
 2nd Number *59987* (Where necessary to be entered in Reg. Book.)  
 Proportions—Breadths to Length *7.8* Residence  
 Depths to Length—Main Deck to top of Keel *13.46* Port belonging to *Southampton*  
 Destined Voyage *New Zealand* If Surveyed while Building, Afloat, or in Dry Dock *Building*

Length on Deck *474* Feet. *11* Inches. BREADTH—Feet. *60* Inches. *9* Moulded. DEPTH, top of Floors to *39.35* Awning Dk. Beams *31* Feet. *19* Inches. Power of Engines *24* Horse. No. of Decks with flat laid *24* Awning Dk. No. of Tiers of Beams *24* Awning Dk.  
 Dimensions of Ship per Register, Length *474.8* breadth *61.1* depth *39.35* Awning Dk. Moulded depth, ft. *34* ins. *0* To Main Dk. Round up of *15* ins. Beam, Main Dk.)

FRAMING.					FORGINGS AND CASTINGS.				
	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.		Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.
ME, Angles, Bars, for 1/2 length amidships	9	3 1/2	10	9	3 1/2	10	9	3 1/2	10
o. for 1/2 at each end	9	3 1/2	10	9	3 1/2	10	9	3 1/2	10
o. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	11	3 1/2	3 1/2	11	3 1/2	3 1/2	11
" " at intermdt. Bkts.	2 1/2	2 1/2	10	2 1/2	2 1/2	10	2 1/2	2 1/2	10
ance of Frames from moulding edge to moulding edge, all fore and aft	4 1/2	4 1/2	14	4 1/2	4 1/2	14	4 1/2	4 1/2	14
VERSED FRAME, Angles	3 1/2	3 1/2	10	3 1/2	3 1/2	10	3 1/2	3 1/2	10
EP FRAMING, depth of girder	4	4	11	4	4	11	4	4	11
ORS, depth and thickness of Floor Plate at mid line for 1/2 length amidships	9	4	10	9	4	10	9	4	10
" " in way of Engines and Boilers	8	8	10	8	8	10	8	8	10
" thickness at the ends of vessel	8	8	10	8	8	10	8	8	10
" depth at 1/2 the half bath	8	8	10	8	8	10	8	8	10
" height extended at the Bulkheads	8	8	10	8	8	10	8	8	10
ORS & BRACKETS, in Cell Date Bottoms	9	8	9	8	9	8	9	8	9
" Distance apart	27	27	27	27	27	27	27	27	27
TRE GIRDER, in Double bottom, depth and thickness	50	50	50	50	50	50	50	50	50
" " Angles, Top	4	4	11	4	4	11	4	4	11
" " Bottom	5	5	13	5	5	13	5	5	13
E GIRDERS, number and thickness	Three	Three	Three	Three	Three	Three	Three	Three	Three
" Angles	3 1/2	3 1/2	10	3 1/2	3 1/2	10	3 1/2	3 1/2	10
RGIN PLATE, depth (exclusive of flange) and thickness	38	38	38	38	38	38	38	38	38
" Angles	4	4	11	4	4	11	4	4	11
ER BOTTOM PLATING, breadth and thickness of Middle Line Strake	60	60	60	60	60	60	60	60	60
" " thickness in Engine and Boiler space	11/20	11/20	11/20	11/20	11/20	11/20	11/20	11/20	11/20
" " Remainder in Holds	9	9	9	9	9	9	9	9	9
AMS, Spar or Awning Deck, Single Angle, Bulb Angle, Plate or Tee Bulb Channel	7	3 1/2	11	7	3 1/2	11	7	3 1/2	11
" Angles on upper edge	27	27	27	27	27	27	27	27	27
Average space	8	8	8	8	8	8	8	8	8
AMS, Main Deck, Single Angle, Bulb Angle, Plate or Tee Bulb Channel	9	3 1/2	12	9	3 1/2	12	9	3 1/2	12
" Angles on upper edge	27	27	27	27	27	27	27	27	27
Average space	10	10	10	10	10	10	10	10	10
AMS, Lower Deck, Single Angle, Bulb Angle, Plate or Tee Bulb Channel	10	3 1/2	14	10	3 1/2	14	10	3 1/2	14
" Angles on upper edge	27	27	27	27	27	27	27	27	27
Average space	27	27	27	27	27	27	27	27	27
AMS, Hold, or Orlop, Plate or Tee Bulb	10	3 1/2	15	10	3 1/2	15	10	3 1/2	15
" Angles on upper edge	27	27	27	27	27	27	27	27	27
Average space	27	27	27	27	27	27	27	27	27
AMS, Poop Deck, Angle, Bulb Angle, Plate or Tee Bulb	10	3 1/2	15	10	3 1/2	15	10	3 1/2	15
" Angles on upper edge	27	27	27	27	27	27	27	27	27
Average space	27	27	27	27	27	27	27	27	27
AMS, Bridge Deck, Angle, Bulb Angle, Plate or Tee Bulb	10	3 1/2	15	10	3 1/2	15	10	3 1/2	15
" Angles on upper edge	27	27	27	27	27	27	27	27	27
Average space	27	27	27	27	27	27	27	27	27
AMS, Forecastle Deck, Angle, Bulb Angle, Plate or Tee Bulb Channel	10	3 1/2	15	10	3 1/2	15	10	3 1/2	15
" Angles on upper edge	27	27	27	27	27	27	27	27	27
Average space	27	27	27	27	27	27	27	27	27
CLARS, In-tween Deck, size and spacing	8	8	8	8	8	8	8	8	8
" " Hold	13	13	13	13	13	13	13	13	13
" " Quarter, tween Dks., "	18	18	18	18	18	18	18	18	18
" " in Hold	18	18	18	18	18	18	18	18	18
WEB FRAMES, In Fore Body, No. and spacing	36	36	36	36	36	36	36	36	36
" " No. of Side Stringers	10	10	10	10	10	10	10	10	10
WEB FRAMES, In E. & B. Space, No. & spacing	36	36	36	36	36	36	36	36	36
" " breadth & thickness	10	10	10	10	10	10	10	10	10
WEB FRAMES, In After Body, No. and spacing	36	36	36	36	36	36	36	36	36
" " breadth & thickness	10	10	10	10	10	10	10	10	10
" " No. of Side Stringers	10	10	10	10	10	10	10	10	10
" " Size of Angles or Tee Bars to Web Frames	6	6	6	6	6	6	6	6	6
BRACKET PLATES to Stringers between Web Frames, depth and thickness	6	6	6	6	6	6	6	6	6

FORGINGS AND CASTINGS.				
	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.
KEEL, Bar or Side Plates, depth and thickness	10	10	10	10
STEM, moulding and thickness	12	12	12	12
STERN-POST for Rudder do. do.	13	13	13	13
" " for Propeller	12	12	12	12
MAIN PIECE of Rudder, diameter at head	12	12	12	12
do. at heel	9	9	9	9
RUDDER, how constructed	Single plate	Single plate	Single plate	Single plate
Can the Rudder be unshipped afloat?	Yes	Yes	Yes	Yes
KEELSONS AND STRINGERS.				
	Inches in Ship.	Inches in Ship.	20ths in Ship.	Inches per Rule Or as Approved.
CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate				
" Rider Plate				
" Bulb Plate to Intercoastal Keelson				
" Horizontal Plates on Floors				
" Angles				
SIDE KEELSON, Angles				
" Bulb or Plate above floors, for length				
" Intercoastal Plate, for length				
" Attached to outside plating with Angle				
BILGE KEELSON, Angles				
" Bulb or Plate above floors, for length				
" Intercoastal Plate, for length				
" Attached to outside plating with Angle				
BILGE STRINGER Angles				
" Bulb Plate, for length				
" Intercoastal Plate, for length				
" Attached to outside plating with Angle				
SIDE STRINGER Angles				
" Bulb or Intercoastal Plate, for length				
" Attached to outside plating with Angle				
Spar or Awning Deck Stringer Plates, breadth and thickness	50	44	13	8
" Angle on ditto	5	5	11	5
" Tie Plates, fore and aft, outside Hatchways				
" Diagonal Tie Plates, No. of pair				
" Deck, Steel, for full length				
" Wood Deck, Material & thickness				
Main Deck Stringer Plate, breadth & thickness	77	56	11	9
" Angles on ditto, No. of pair	4	4	9	8
" Tie Plates, outside Hatchways				
" Diagonal Tie Plates, No. of pair				
" Deck, Steel, for full length				
" Wood Deck, Material & thickness				
Lower Deck Stringer Plates, breadth & thickness	77	56	11	9
" Angles on ditto, No. of pair	4	4	9	8
" Tie Plates, outside Hatchways				
" Deck, Material and thickness				
Hold, or Orlop Stringer Plate, breadth & thickness				
" Angles on ditto, No. of pair				
" Tie Plates, outside Hatchways				
" Deck, Material and thickness				
Poop Deck Stringer Plate, breadth & thickness				
" Angles on ditto				
" Tie Plates				
" Deck, Material and thickness				
Bridge Deck Stringer Plate, breadth & thickness				
" Angle on ditto				
" Tie Plates				
" Deck, Material and thickness				
Forecastle Deck Stringer Plate, breadth & thickness				
" Angle on ditto				
" Tie Plates				
" Deck, Material and thickness				

BULKHEADS.					STIFFENERS.				
	In Vessel.	Per Rule.	Thickness.						
W. T. BULKHEADS	9	8	9	9	12	14	20	30	Single M. H.
PARTITION									Call H. A. D.
LONGITUDINAL									

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



PLATING.										RIVETING.									
STRAKES.	AS IN SHIP.				PER RULE OR AS APPROVED.		EDGES.			BUTTS.									
	AMIDSHIP.		FORWARD.		AFT.		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.	Thickness.	Breadth.	Thickness.	Breadth.	For what Length.
FLAT PLATE KEEL (If Bar Keel, state Riveting)	48	22	15	15	48	22	Double	6 3/4	1 1/8	4 1/2	Double Strap	1 1/8	4	2 1/2	15-14	10 1/2	full.		
GARBOARD OR A STRAKE	53	15	14	14	53	15				Double Riv	1 1/8	4	4						
State actual thickness in way of Double Bottom.	B	73	15	11	11	73	15			Double	1	4	4						
	C	73	15	11	11	73	15			Double	1	4	4						
	D	73	15	11	11	73	15												
	E	66	15	12	12	66	15												
	F	66	15	12	12	66	15												
	G	66	15	12	12	66	15	Double & Dtl											
	H	69	14	11	11	69	14												
	J	69	14	11	11	69	14												
	K	69	14	11	11	69	14	Double	6										
	L	61	14	11	11	69	14												
Clear Strake	M	54	16	11	11	54	16					Quad 3/4"							
	N	59	15	10	10	59	15												
	O	54	18	10	10	54	18					Quad 3/4"	1 1/8					16"	
	P																		
	Q																		
DOUBLING of Flat Plate Keel	Keel plate increased and 10 x 1 3/4" flat bar fitted.																		
Length and thickness of Bilges	Plating increased in lieu.																		
of Sheerstrakes																			
of Strake below																			
POOP SIDES																			
BRIDGE SIDES																			
FORECASTLE SIDES	9/20																		

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. *Open Hearth, Siemens Martin.*  
*Bars, Lanarkshire, Glasgow Iron Works, Motherwell, Colville.*  
*Steel Co. of Scotland, Glasgow, C. & G. Co. Ltd.*  
*9 Dornier Lane.*  
*Plates, South Durham, Donal, Clydesdale & Colville.*

Span or Awning Butts, treble riveted *ends quad for 1/2 length amidship.*  
Stringer Plate Straps, single, double or overlapped for *full length amidship.*  
Main Stringer Butts, treble riveted for *through out.* length amidship.  
Plate Straps, single, double or overlapped for *full length amidship.*  
Butts of Bilges & Side Stringers and Tie Plates, treble or double riveted? *treble.*  
Inner Bottom Plating, riveting of Edges *Double.* Butts *Dtl. Lett. in 6 ft.*  
Centre Girder Butts, *Quad.* riveted *Keelson Butts, Treble.* riveted.  
Frames, riveted through Plates with *7/8* in. Rivets, about *4 1/8* apart.  
Rivets, state whether Iron or Steel. *Iron.*

FRAMES extend in one length from *Keel to Margin plate and thence to gunwale.*  
REVERSED FRAMES on floors and frames extend from *Middle Line to Margin plate and thence to Lower Deck Beams, all to Awning Deck in after peak and alternately to Main & Forecastle Decks forward.*

MASTS, SPARS, &c.									
Material.	Total Length	DIAMETER AND THICKNESS.			No. of Plates in round.	ANGLES.		RIVETING.	
		At Partners.	Heel.	Hounds.		Number.	Size.	Seams.	Butts.
LOWER MASTS....									
Fore .....	<i>Steel</i> 77.5	28 1/2 x 3/4	25 x 1/2	22 x 1/4	2	3	4 1/2 x 3 1/2	Single	Treble.
Main .....	82.7	25 1/2 x 3/4	22 1/2 x 3/4	18 x 1/2	2		none		
Mizen .....									
Bowsprit									
Topmasts, Yards and Remainder of Spars	<i>Pitch Pine.</i>								
Rigging, Material and Size, Shrouds	<i>Galvanized Iron Wire 5" Backstay 3 1/2"</i>								
Sails.	Suit of <i>Sails, and the following spare sails</i>								

EQUIPMENT No. 69661 LETTER e + .														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.			
61514	1st Bower ..	99	0	15	64	1	20	67	5	0	0	85	2	0	Halls Patent.	M. Hingley & Sons	Netherton 23.9.08
61510	2nd „ ..	98	0	26	64	2	4	66	17	2	0	85	2	0	-	-	-
61511	3rd „ ..	99	1	7	64	2	10	67	5	0	0	73	2	0	-	-	-
	Collective weight	296	2	20								244	2	0			
61417	Stream ....	25	2	12	6	1	20	25	5	3	21	25	0	0	Rodgers.	M. Hingley & Sons	Netherton 22.9.08
61434	Kedge .....	12	0	10	3	0	18	13	19	2	21	12	0	0		-	18.9.08
	2nd Kedge ..															H. Green	Supt

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.									
43217	150	2 1/4	116-14	695-0-14	989-0-0	300 @ 2 1/4	Stud.	M. Hingley & Sons Netherton.	15.9.08	TOWLINE	130	6	85	130 @ 6"
43219	150	2 1/4	113-7-2	649-2-23					23.9.08	HAWSER 4 coils	90	3 1/2	26	4 coils
				992-3-9						WARP 6 coils	120	8"		100 faths
	120	5 1/4	65				120-5 1/4	Steel Wire Rinkles Bros						8" Manila

Boats *12 Life Boats and 2 Cutters.*  
Pumps, Number *Two 5 1/2" Duntons, connected to engine bilges.* Diameter of Barrel and Tail Pipe *4" & 2"*  
Windlass is *Steam Direct* *J. H. Wilson & Co.* Capstan *✓*  
Engine Room Skylights.—How constructed? *Steel Plates & Angles.*  
What arrangements for deadlights in bad weather? *Bulls eyes & shutters.*  
Coal Bunker Openings.—How constructed? *Blush lids in awn Dtl.* How are lids secured? *Locking Rings* Height above deck? *✓*  
Number of Scuppers, and number and dimensions of Freeing Ports, &c. *Eight each side.*  
Ceiling in Holds, thickness and material *2 1/2" W. Pine.* Ceiling 'tween Decks, thickness and material *2" W. Pine.*  
Cargo Hatchways.—How formed? *Steel plates & Angles, 30" Beams.* Hatches, If strong and efficient? *Yes.*  
State size No. 1 Hatch (Forward) *18' x 16' 6"* No. 2 Hatch *22' 6" x 16' 6"* No. 3 Hatch *13' 6" x 19' 4"* No. 4 Hatch *14' 3" x 16' 6" / 13' 6" x 15' 6"*  
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *1 Web & 2 Bms in No. 1, 2 Webs & 3 Bms in No. 2, 1 Web & 2 Bms in No. 3*  
*2 Webs in No. 4, 2 Webs in No. 5. Webs 7' 0". Beams 12 1/2 x 6 1/2 x 20"* No. of Breasthooks *5 and Stringers* No. of Crutches *Deep Floors.*  
Bulwarks, height above deck and description. *Open Rails.* Main Rail, material and size *✓*  
The above is a correct description. *PRO WORKMAN, CLARK & CO., LIMITED,* Surveyor's Signature *Ed Kendall.*  
Builder's Signature (here only) *W. Macdonald* Secretary *W. Macdonald*  
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)

At 26/11/17, 27/11/17, 18/12/17 3/12/07, 5/4/08, 7/4/18

Workmanship.—Are the butts of plating planed or otherwise fitted? Planed and Lapped.

Is the riveted work properly closed? Yes.

Are the liners between the frames and plates solid single pieces? Yes.

to plate, &c., conform well to each other? Yes.

from the faying surfaces? Yes.

Do the holes for riveting plate to frames, butt straps, or plate

Are the rivet holes well and sufficiently countersunk in the plate and punched

Do any rivets break into or through the seams or butts of plating? very few.

Are the butts of Plating, Stringers, &c., properly shifted and strapped? Yes.

General Remarks (State quality of workmanship, &c.)

This vessel has been built in accordance with the plans approved by the Committee; the Secretary's letters of the above mentioned dates and in other respects in general conformity with the Rules & the workmanship & materials are good throughout. The vessel is insulated in Nos 1-2 and 3 Holds and Lower Tween Decks and in Nos 2 and 3 Upper Tween Decks for the carriage of frozen meat cargoes.

The weather decks & waterways have been tested as required by the Rules with satisfactory results. & the hand pumps and watertight doors tested & found good. The approved plans eight in number together with four faying reports are forwarded herewith.

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

ARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. or Break ft., Bridge Dk. ft., F' castle 49 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated.

o. 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) 2 Dks (Stl.) and deep framing & Awning Dk. (Stl.-W.C.)

Official No. 124507; Signal Letters

How are the surfaces preserved from oxidation? Inside Paint & Portland Cement. Outside Paint.

ARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system Cellular Double Bottom.

Where fitted.	Length.	Water Capacity.	Where fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	90.0	220	Fore peak tank,		
Double bottom, forward,	240.9	865	After peak tank,		
Double bottom, under Engines and Boilers,	85.6	405	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. 530

Date 4 April 1908

Order for Ordinary Survey No. 1

Date

No. 277 in builder's yard.

DATES of Surveys held while building as per Section 18.

- 1st. On the several parts of the frame, when in place, and before the plating was wrought 1908, Jan. 8. 20. 23. Feb. 14. 5. 8. 11. 12. 13. 14. 17. 20. 25
- 2nd. On the plating during the process of riveting Mar. 3. 9. 12. 18. 16. 19. 20. 23. 24. 27. 30. 31. Apr. 6. 7. 10. 13. 15
- 3rd. When the beams were in and fastened, and before the decks were laid Apr. 23. 27. 29. May 4. 7. 13. 25. 28. June 4. 11. 12. 15. 16. 18. 23. 30
- 4th. When the ship was complete, and before the plating was finally coated or cemented July 3. 6. 10. 22. 23. 24. 30. Aug. 4. 5. 6. 7. 10. 12. 14. 17. 18. 20. 25. 26. 27. 28. 31
- 5th. After the ship was launched and equipped Sept. 1. 3. 4. 7. 8. 10. 17. 18. 21. 28. 29. Oct. 5. 6. 7. 9. 12. 13. Total No. of Visits 98

The amount of Entry Fee. £ 5 : 0 : 0

Special Survey Fee £ 264 : 0 : 6

Travelling Expenses, if any £ :

Fees applied for,

26 Oct 1908

Received by me,

29.10.1908

Certificate to be sent to This Office.

I am of opinion this Vessel should be Classed 100 At. Awning Deck.

With, or without Freeboard, as condition of Class With Freeboard.

C. Kendall.

Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Character assigned

FRI. 30 OCT 1908

100 At

and dk with fbd 5. 14. 5"

Lloyd's and B.O.

M.

+ L.M.B. 10.08

F. D. Elec. light



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Lloyd's Register Foundation

Let's usua 30/10/08.

W31-0135 (2/2)