

**MANUFACTURER** ALSTOM Ubunye  
 Marievale Road, Vosterkroon, Nigel, 1490  
**CUSTOMER** Gibela  
**CONTRACT**  
**PROJECT** PRASA

MANUFACTURER'S DELIVERY DOCUMENT	
PRODUCT TYPE	TRAILER BOGIE TBINT
	DTR0009706802
SERIAL NUMBER	TBINT 617

**CONTENTS**

- Compliance certificate.....	Page 1/2	<input checked="" type="checkbox"/>
- List of deviations and missing parts.....	Page 2/2	<input checked="" type="checkbox"/>
- Products traceability.....	1 page	<input checked="" type="checkbox"/>
- Load test report.....	1 page	<input checked="" type="checkbox"/>
- Motor certificate.....	8 pages	<input checked="" type="checkbox"/>

**COMPLIANCE CERTIFICATE**

We hereby declare, barring exceptions, reservations, or exemptions listed in this statement of conformity, that the listed supplies comply with the contract requirements and that, after completions of testing and verification, they completely satisfy all specified requirements and applicable standards and regulations.

CONSTRUCTOR APPROVAL	
DATE	15 May 2024
NAME	Kwababana Hlumisa
VISA	

**I - Deviation / Derogation**

**II - Bogie configuration**

B Bogie index



# ALSTOM UBUNYE PRODUCTS TRACEABILITY

Products Designation	Product Reference	Serial Number	Batch or Date Manufactured	Supplier
Trailer Bogie TBINT	DTR0009706802	617		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	7892		Alstom - Ubunye
Wheelset (Front)	AR000000177020	701649		Alstom - Ubunye
Axle	AR00000174678	105189	D1230031	Jinxi
Wheel (Right)	AR00000174670	024	10-23	Bonatrans
Wheel (Left)	AR000000174670	014	10-23	Bonatrans
Wheelset (Rear)	AR00000185203	701650		Alstom Ubunye
Axle	AR00000174678	101493	D1230044	Jinxi
Wheel (Right)	AR00000174670	074	07-23	Bonatrans
Wheel (Left)	AR00000174670	072	07-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2401046		TMT
Pneumatic suspension (Left)	AR00000176127	2401025		TMT
Brake unit with PB (Right rear)	AR00000174544	1774	05-24	WABTEC
Brake unit without PB (Right front)	AR00000175185	5341	05-24	WABTEC
Brake unit without PB (Left Front)	AR00000175185	5340	05-24	WABTEC
Brake unit without PB (left rear)	AR00000175185	5343		WABTEC

# PRESSING REPORT

DATE 5/14/2024	RESPONSABLE VALIDATION	PRASA	LOAD TEST : TBINT
DATE VALIDATION		INSTRUCTION SHEET:	PROJECT: PRASA
		FAMILY:	

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]		4468

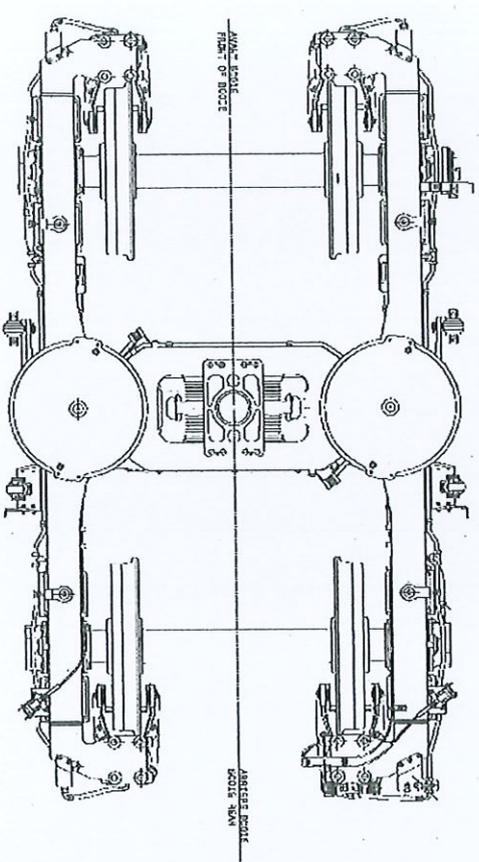
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.27	+	0.00	= 588.27
			MIN 587.50 MAX 590.00

RIGHT JACK LOAD  
6695 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]		4656

BOGIE SERIAL N°	617
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18345
COMPLETE BOGIE WEIGHT [Kg]	4609
OPERATOR	DATE
BAFANA	5/14/2024

OPERATOR STAMP  
DC-B-1-6



LEFT JACK LOAD  
6695 Kg

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN MAX	-2.00 2.00
LOAD DIFFERENCE ON REAR AXLE [%]	MIN MAX	-2.00 2.00
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN MAX	-2.00 2.00
LOAD DIFFERENCE ON RAILS [%]	MIN MAX	-2.00 2.00
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN MAX	-2.00 2.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]		4650

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
587.61	+	0.00	= 587.61
			MIN 587.50 MAX 590.00

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			
			THEORETICAL [mm]
			MIN -1.00 MAX 1.00
		0,66	

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]		4509

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**CONTRACT**  
**PROJECT** PRASA

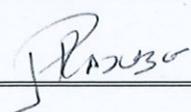
MANUFACTURER'S DELIVERY DOCUMENT	
PRODUCT TYPE	TRAILER BOGIE TBEXT
	DTR0009706803
SERIAL NUMBER	TBEXT 611

**CONTENTS**

- Compliance certificate.....	Page 1/2	<input checked="" type="checkbox"/>
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DATE	15 May 2024
NAME	Kwababana Hlumisa
VISA	

**I - Deviation / Derogation**

**II - Bogie configuration**

B Bogie index



# ALSTOM UBUNYE PRODUCTS TRACEABILITY

Products Designation	Product Reference	Serial Number	Batch or Date Manufactured	Supplier
Trailer Bogie TBEXT	DTR0009706803	611		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	7890		Alstom - Ubunye
Wheelset (Front)	AR000000177020	701651		Alstom - Ubunye
Axle	AR00000174678	101460	01230044	Jinxi
Wheel (Right)	AR00000174670	136	10-23	Bonatrans
Wheel (Left)	AR000000174670	138	10-23	Bonatrans
Wheelset (Rear)	AR00000185203	701652		Alstom - Ubunye
Axle	AR00000174678	114880	12176732	Jinxi
Wheel (Right)	AR00000174670	122	10-23	Bonatrans
Wheel (Left)	AR00000174670	156	10-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2312151		TMT
Pneumatic suspension (Left)	AR00000176127	2401067		TMT
Brake unit with PB (Right rear)	AR00000174544	1776	05-24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5342	05-24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5333	05-24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5344	05-24	Wabtec

# PRESSING REPORT

DATE  
5/14/2024

DATE VALIDATION  
RESPONSIBLE VALIDATION

PRASA

INSTRUCTION SHEET:

FAMILY:

LOAD TEST: TBEXT

PROJECT:

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	33.00	37.58 ✓
	MAX	39.00	
SHIM THICK [mm]	Q4		5454
WEIGHT ON WHEEL [Kg]			

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
585.62	+	5.00 =	590.62
			592.50

RIGHT JACK LOAD	8453 Kg
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BOGIE SERIAL N° 611

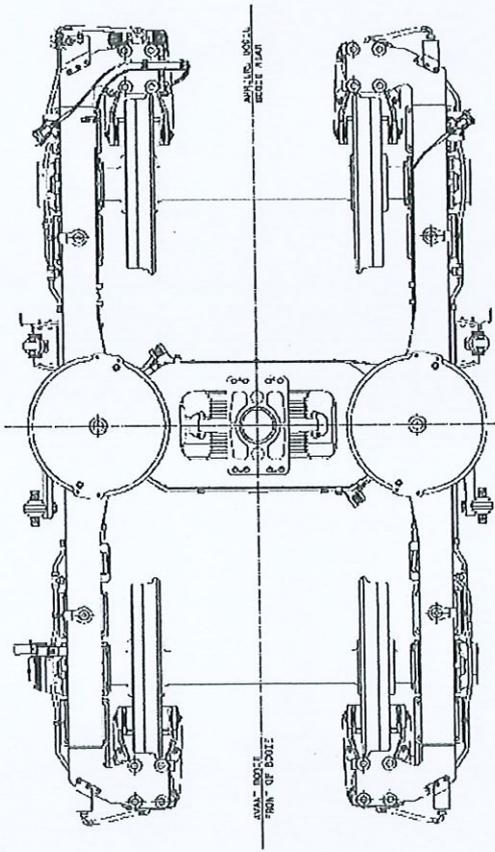
BOGIE TYPE TBEXT

BOGIE WEIGHT UNDER LOAD [Kg] 21885

COMPLETE BOGIE WEIGHT [Kg] 4649

OPERATOR SAFANA

DATE 5/14/2024



OPERATOR STAMP

DC-BFI-6

LOAD DIFFERENCE ON FRONT AXLE [%]	THEORETICAL		MEASURED
	MIN	MAX	
LOAD DIFFERENCE ON REAR AXLE [%]	MIN	0.00	1.14 ✓
	MAX	0.00	
LOAD DIFFERENCE ON FRONT AXLE AND REAR AXLE [%]	MIN	0.00	0.26 ✓
	MAX	0.00	
LOAD DIFFERENCE ON RAILS [%]	MIN	0.00	0.06 ✓
	MAX	0.00	
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN	0.00	0.70 ✓
	MAX	0.00	

LEFT JACK LOAD	8453 Kg
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WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	33.00	37.10 ✓
	MAX	39.00	
SHIM THICK [mm]	Q1		5537
WEIGHT ON WHEEL [Kg]			

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.34	+	4.00 =	590.34
			592.50
DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]		0.28	
		MIN	-1.00
		MAX	1.00

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	33.00	37.02 ✓
	MAX	39.00	
SHIM THICK [mm]	Q3		5482
WEIGHT ON WHEEL [Kg]			