

**MANUFACTURER** ALSTOM Ubunye  
 Marievale Road, Vosterkroon, Nigel, 1490

**CUSTOMER** Gibela

**CONTRACT**

**PROJECT** PRASA

### MANUFACTURER'S DELIVERY DOCUMENT

**PRODUCT TYPE** TRAILER BOGIE type TBEXT

DTR0009706803

**SERIAL NUMBER** TBEXT - 629

#### 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"/>

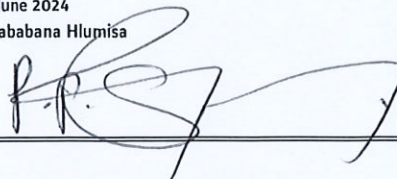
#### COMPLIANCE CERTIFICATE

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  
NAME  
VISA

29 June 2024  
Kwababana Hlumisa



**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	629		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	935		Alstom - Ubunye
Wheelset (Front)	AR000000177020	1722		Alstom - Ubunye
Axle	AR00000174678	105190	1230031	Jinxi
Wheel (Right)	AR00000174670	102	03.24	Bonatrans
Wheel (Left)	AR000000174670	076	03.24	Bonatrans
Wheelset (Rear)	AR00000185203	1721		Alstom - Ubunye
Axle	AR00000174678	101480	1230044	Jinxi
Wheel (Right)	AR00000174670	072	11.23	Bonatrans
Wheel (Left)	AR00000174670	066	11.23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2401006		TMT
Pneumatic suspension (Left)	AR00000176127	2401001		TMT
Brake unit with PB (Right rear)	AR00000174544	1811	05.24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5456	05.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5457	05.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5458	05.24	Wabtec



PRESSING REPORT

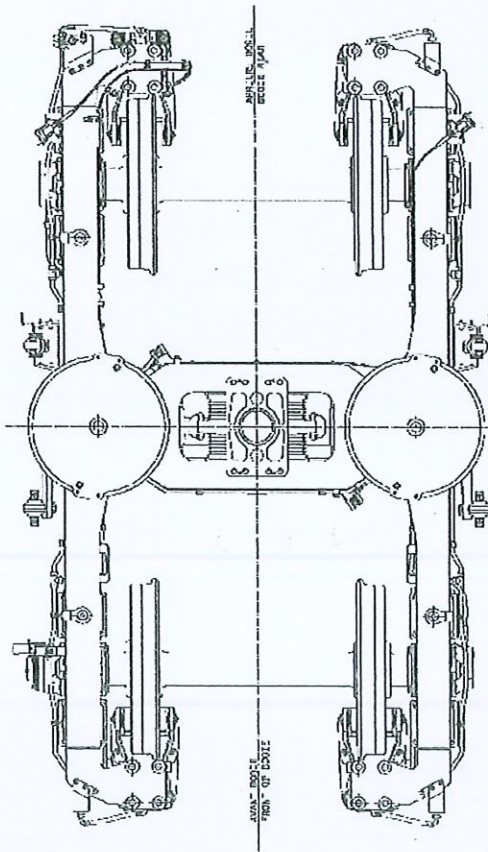
6/28/2024		PRASA		LOAD TEST : TBEXT	
DATE VALIDATION		RESPONSABLE VALIDATION		INSTRUCTION SHEET:	
				PROJECT:	

	WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
		MIN	MAX	
GAP PRIMARY SUSPENSION [mm]		MIN 33.00	MAX 39.00	35.80 ✓
SHIM THICK [mm]				
WEIGHT ON WHEEL [Kg]		Q4		5522

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
584.39	+	6.00 =	590.39
			MIN 590.00
			MAX 592.50

RIGHT JACK LOAD
8453 Kg

BOGIE SERIAL N°	629
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21915
COMPLETE BOGIE WEIGHT [Kg]	4663
OPERATOR	BAFANA
DATE	6/28/2024



	LOAD DIFFERENCE ON FRONT AXLE [%]	THEORETICAL		MEASURED
		MIN	MAX	
LOAD DIFFERENCE ON REAR AXLE [%]		MIN 0.00	MAX 0.00	1.91 ✓
LOAD DIFFERENCE ON RAILS [%]		MIN 0.00	MAX 0.00	-0.86 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]		MIN 0.00	MAX 0.00	0.07 ✓
		MIN 0.00	MAX 0.00	0.52 ✓
		MIN 0.00	MAX 0.00	-1.38 ✓

OPERATOR STAMP
DC-BFI-6

LEFT JACK LOAD
8453 Kg

	WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
		MIN	MAX	
GAP PRIMARY SUSPENSION [mm]		MIN 33.00	MAX 39.00	35.10 ✓
SHIM THICK [mm]				
WEIGHT ON WHEEL [Kg]		Q3		5428

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
583.93	+	7.00 =	590.93
			MIN 590.00
			MAX 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm] ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
-0.54			MIN -1.00
			MAX 1.00

	WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
		MIN	MAX	
GAP PRIMARY SUSPENSION [mm]		MIN 33.00	MAX 39.00	35.50 ✓
SHIM THICK [mm]				
WEIGHT ON WHEEL [Kg]		Q1		5587

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 635**

#### 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"/>

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CONSTRUCTOR APPROVAL	
DATE	29 June 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	635		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	928		Alstom - Ubunye
Wheelset (Front)	AR000000177020	1723		Alstom - Ubunye
Axle	AR00000174678	108061	D1232169	Jinxi
Wheel (Right)	AR00000174670	110	03-24	Bonatrans
Wheel (Left)	AR000000174670	154	03-24	Bonatrans
Wheelset (Rear)	AR00000185203	1724		Alstom - Ubunye
Axle	AR00000174678	108057		Jinxi
Wheel (Right)	AR00000174670	015	03-24	Bonatrans
Wheel (Left)	AR00000174670	014	03-24	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2401005		TMT
Pneumatic suspension (Left)	AR00000176127	2403002		TMT
Brake unit with PB (Right rear)	AR00000174544	1208	06-24	Wabtec
Brake unit without PB (Right front )	AR00000175185	5479	06-24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5477	06-24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5480	06-24	Wabtec



PRESSING REPORT

DATE VALIDATION		RESPONSABLE VALIDATION		PRASA		INSTRUCTION SHEET:	
6/28/2024							
				LOAD TEST :		TBINT	
				PROJECT:		PRASA	
				FAMILY:			

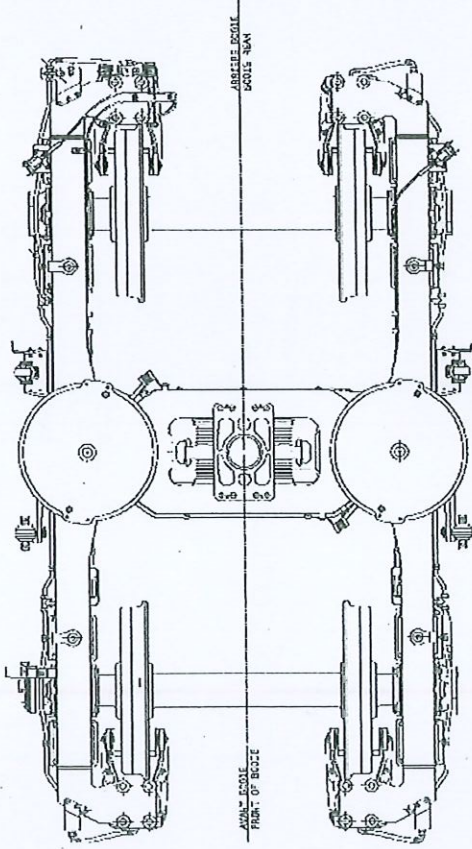
	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	37.80
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q4	4586

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
587.88	+	0.00	MIN 587.88 MAX 590.00

RIGHT JACK LOAD	
6695	Kg

BOGIE SERIAL N°	635
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	13364
COMPLETE BOGIE WEIGHT [Kg]	4619
OPERATOR	BAFANA
DATE	6/28/2024

OPERATOR STAMP	DC-B71-6
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	THEORETICAL		MEASURED
	MIN	MAX	
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN -2.00	MAX 2.00	-0.08
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00	MAX 2.00	0.42
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN -2.00	MAX 2.00	-0.32
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00	MAX 2.00	0.17
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00	MAX 2.00	0.25

LEFT JACK LOAD	
6695	Kg

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
587.29	+	1.00	MIN 588.29 MAX 590.00

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	
-0.41	
THEORETICAL [mm]	MIN -1.00 MAX 1.00

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	37.30
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q1	4573