

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 - 622**

#### 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

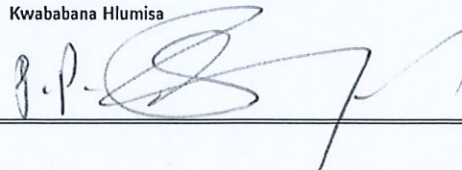
We hereby declare, barring exceptions, reservations, or exemptions listed in this statement of conformity, that the listed supplies comply with the contract requirements and that, after completions of testing and verification, they completely satisfy all specified requirements and applicable standards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

#### CONSTRUCTOR APPROVAL

DATE **11 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	622		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T0 911		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T0 1693		Alstom - Ubunye
Axle	AR00000174678	114943	12176732	Jinxi
Wheel (Right)	AR00000174670	129	10.23	Bonatrans
Wheel (Left)	AR000000174670	169	10.23	Bonatrans
Wheelset (Rear)	AR00000185203	T0 1694		Alstom Ubunye
Axle	AR00000174678	114928	12176732	Jinxi
Wheel (Right)	AR00000174670	130	10.23	Bonatrans
Wheel (Left)	AR00000174670	128	10.23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2403009		TMT
Pneumatic suspension (Left)	AR00000176127	2403010		TMT
Brake unit with PB (Right rear)	AR00000174544	1799	05.24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5494	05.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5496	05.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5501	05.24	Wabtec



DATE  
6/11/2024

DATE VALIDATION

RESPONSABLE VALIDATION

PRASA  
INSTRUCTION SHEET:  
FAMILY:

## PRESSING REPORT

LOAD TEST : TBEXT

PROJECT:

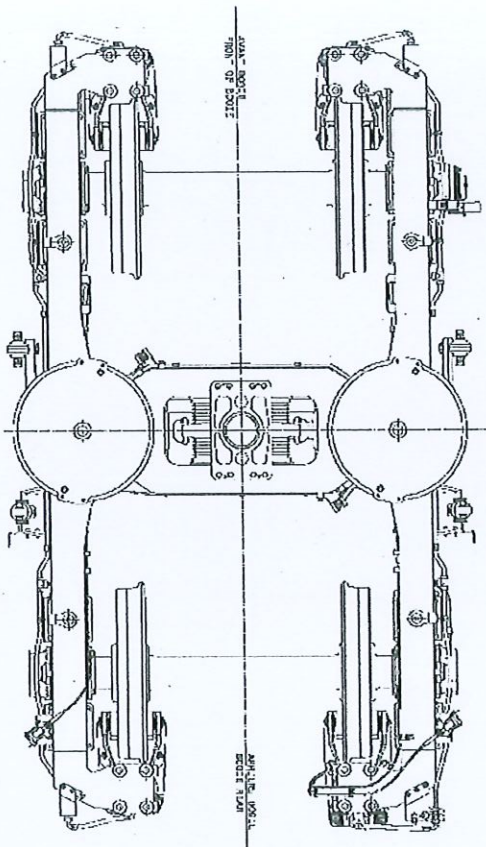
	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	34.90 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	5357

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]	THEORETICAL [mm]
585.19	+	5.00	MIN 590.00 MAX 592.50

RIGHT JACK LOAD	
8453	Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	34.92 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	5476

BOGIE SERIAL N°	TBEXT-622
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21864
COMPLETE BOGIE WEIGHT [Kg]	4602
OPERATOR	DATE
TYRON	6/11/2024



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN 0.00 MAX 0.00	1.82 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN 0.00 MAX 0.00	-0.01 ✓
LOAD DIFFERENCE ON FRONT AXLE AND REAR AXLE [%]	MIN 0.00 MAX 0.00	-0.17 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN 0.00 MAX 0.00	0.91 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN 0.00 MAX 0.00	-0.91 ✓

OPERATOR STAMP	
DC-BF1-2	

LEFT JACK LOAD	
8453	Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	34.37 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5556

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
584.23	+	6.00	MIN 590.00 MAX 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			
-0.04	✓	THEORETICAL [mm]	MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	34.25 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5475

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 Marievale Road, Vosterkroon, Nigel, 1490

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

### MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE type TBINT**

**DTR0009706802**

SERIAL NUMBER **TBINT - 628**


#### 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

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#### CONSTRUCTOR APPROVAL

DATE	14 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 TBINT	DTR0009706802	628		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	915		Alstom - Ubunye
Wheelset (Front)	AR000000177020	1695		Alstom - Ubunye
Axle	AR00000174678	114469	12176733	Jinxi
Wheel (Right)	AR00000174670	005	03.24	Bonatrans
Wheel (Left)	AR000000174670	091	03.24	Bonatrans
Wheelset (Rear)	AR00000185203	1696		Alstom Ubunye
Axle	AR00000174678	114510	12176733	Jinxi
Wheel (Right)	AR00000174670	017	03.24	Bonatrans
Wheel (Left)	AR00000174670	018	03.24	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2312061		TMT
Pneumatic suspension (Left)	AR00000176127	2311095		TMT
Brake unit with PB (Right rear)	AR00000174544	1835	06.24	WABTEC
Brake unit without PB (Right front)	AR00000175185	5533	06.24	WABTEC
Brake unit without PB (Left Front)	AR00000175185	5532	06.24	WABTEC
Brake unit without PB (left rear)	AR00000175185	5531	06.24	WABTEC



DATE VALIDATION

RESPONSABLE VALIDATION

PRASA  
INSTRUCTION SHEET:

FAMILY:

LOAD TEST : TBINT

PROJECT: PRASA

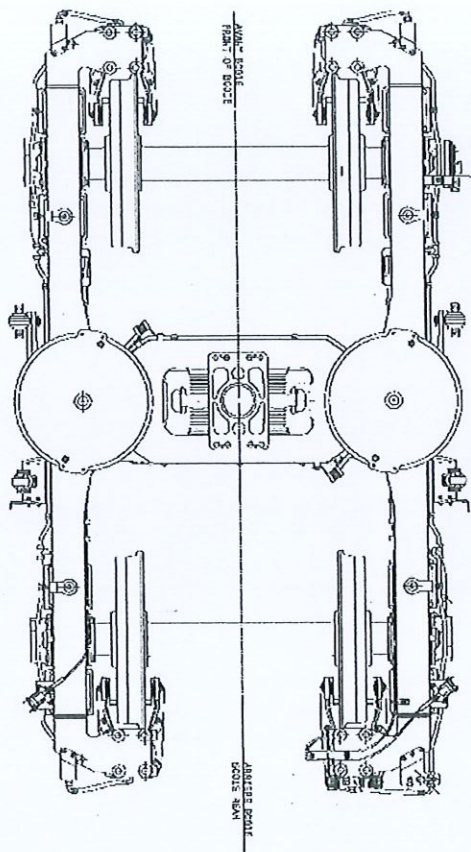
	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	36.60 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	4544

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]	THEORETICAL [mm]
586.85	+	1.00 =	587.85 MIN 587.50 MAX 590.00

RIGHT JACK LOAD	
6695	Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	37.38 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	4622

BOGIE SERIAL N°	628
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18359
COMPLETE BOGIE WEIGHT [Kg]	4613
OPERATOR	DATE
BAFANA	6/11/2024



OPERATOR STAMP
DC-371-6

LEFT JACK LOAD	
6694	Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	36.70 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	4618

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
585.62	+	2.00 =	587.62 MIN 587.50 MAX 590.00
DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			THEORETICAL [mm]
0.23			MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN -2.00 MAX 2.00	0.81 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.51 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.19 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00 MAX 2.00	0.15 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00 MAX 2.00	-0.66 ✓

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	36.10 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	4575