

**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 - 618

#### 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** 06 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	618		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T0 905		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T0 1677		Alstom - Ubunye
Axle	AR00000174678	107011	12176718	Jinxi
Wheel (Right)	AR00000174670	151	07.23	Bonatrans
Wheel (Left)	AR000000174670	150	07.23	Bonatrans
Wheelset (Rear)	AR00000185203	T0 1678		Alstom Ubunye
Axle	AR00000174678	107235	12176717	Jinxi
Wheel (Right)	AR00000174670	163	07.23	Bonatrans
Wheel (Left)	AR00000174670	155	07.23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2403049		TMT
Pneumatic suspension (Left)	AR00000176127	2404023		TMT
Brake unit with PB (Right rear)	AR00000174544	1817	05.24	Wabtec
Brake unit without PB (Right front )	AR00000175185	5470	05.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5473	05.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5475	05.24	Wabtec



PRESSING REPORT

DATE 5/31/2024	RESPONSABLE VALIDATION		PRASA ALSTOM INDIA PVT. LTD.		LOAD TEST : TBEXT
DATE VALIDATION			INSTRUCTION SHEET:		PROJECT:
			FAMILY:		

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	36.68 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	5469

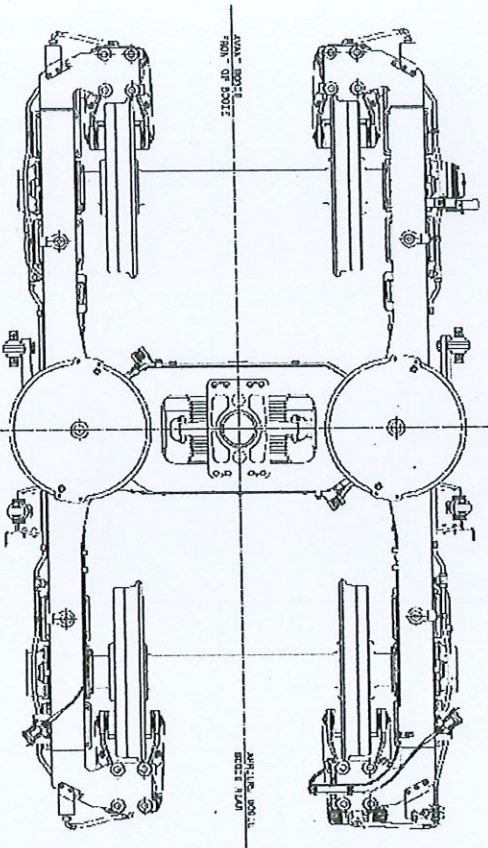
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
585.47	+	5.00 =	590.47 MIN 590.00 MAX 592.50

RIGHT JACK LOAD
8453 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	36.98 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	5479

BOGIE SERIAL N°	618
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21913
COMPLETE BOGIE WEIGHT [Kg]	4673
OPERATOR	DATE
BAFANA	5/31/2024

OPERATOR STAMP
DC-BFI-6



LEFT JACK LOAD
8453 Kg

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.87	+	4.00 =	590.87 MIN 590.00 MAX 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	✓	THEORETICAL [mm]
-0.40		MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN 0.00 MAX 0.00	0.39 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN 0.00 MAX 0.00	-0.23 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN 0.00 MAX 0.00	0.22 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN 0.00 MAX 0.00	0.08 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN 0.00 MAX 0.00	-0.31 ✓

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	36.98 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5512

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	36.50 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5454



**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 625**

### CONTENTS

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



<div><div>ALSTOM</div><div>TRANSPORT</div></div>	DELIVERY STATUS	PRASA TBINT 625
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I - Deviation / Derogation

II - Bogie configuration

B Bogie index

PRESSING REPORT

DATE 6/4/2024	RESPONSABLE VALIDATION	PRASA ALISTAR GURUJAL	LOAD TEST : TBINT
DATE VALIDATION		INSTRUCTION SHEET:	PROJECT: PRASA
		FAMILY:	

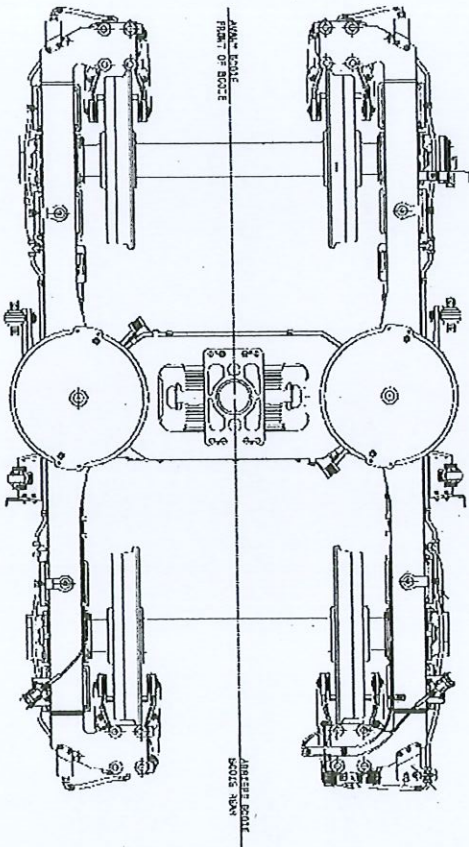
	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	37.20 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	4574

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.96	+	3.00	= 589.96 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 37.33 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	4588

BOGIE SERIAL N°	625
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18352
COMPLETE BOGIE WEIGHT [Kg]	4607
OPERATOR	DATE
EDWARD	6/4/2024



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN MAX	-2.00 2.00 0.14 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN MAX	-2.00 2.00 0.15 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN MAX	-2.00 2.00 -0.16 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN MAX	-2.00 2.00 0.15 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN MAX	-2.00 2.00 0.01 ✓

OPERATOR STAMP
BFI-21

LEFT JACK LOAD
6695 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50 37.13 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	4587

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.99	+	0.00	= 589.99 MIN 587.50 MAX 590.00

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	✓	THEORETICAL [mm]
-0.03		MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50 36.48 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	4602



**ALSTOM UBUNYE****PRODUCTS TRACEABILITY**

Products Designation	Product Reference	Serial Number	Batch or Date Manufactured	Supplier
Trailer Bogie TBINT	DTR0009706802	625		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T906		Alstom - Ubunye
Wheelset (Front)	AR000000177020	101681		Alstom - Ubunye
Axle	AR00000174678	114760	12176733	Jinxi
Wheel (Right)	AR00000174670	108	07-23	Bonatrans
Wheel (Left)	AR000000174670	110	07-23	Bonatrans
Wheelset (Rear)	AR00000185203	101682		Alstom Ubunye
Axle	AR00000174678	114476	12176733	Jinxi
Wheel (Right)	AR00000174670	009	07-23	Bonatrans
Wheel (Left)	AR00000174670	011	07-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2401030		TMT
Pneumatic suspension (Left)	AR00000176127	2401048		TMT
Brake unit with PB (Right rear)	AR00000174544	987	05-2024	WABTEC Poli
Brake unit without PB (Right front)	AR00000175185	2945	05-2024	WABTEC Poli
Brake unit without PB (Left Front)	AR00000175185	2943	05-2024	WABTEC Poli
Brake unit without PB (left rear)	AR00000175185	2944	05-2024	WABTEC Poli