

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	D1230041	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



DATE VALIDATION

RESPONSABLE VALIDATION

PRASA  
INSTRUCTION SHEET:

FAMILY:

PRESSING REPORT

LOAD TEST : TBINT

PROJECT: PRASA

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	4468

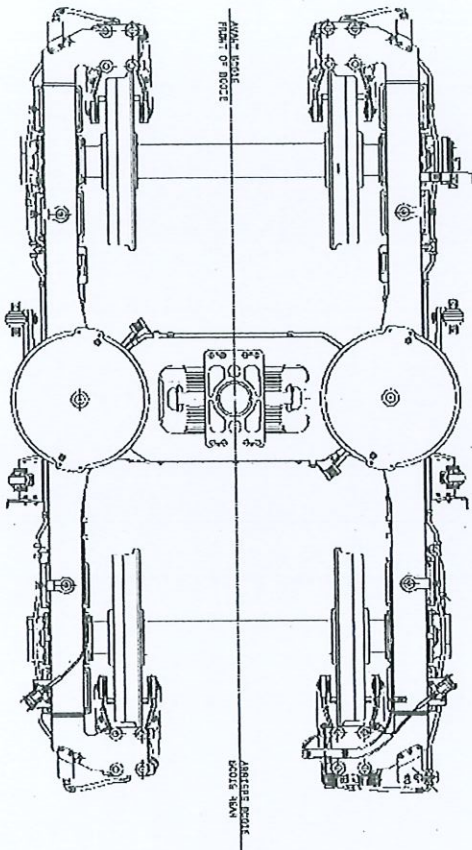
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.27	+	0.00	= 588.27
			MIN 587.50 MAX 590.00

RIGHT JACK LOAD
6695 Kg

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

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]	0.66	THEORETICAL [mm]
		MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN -2.00 MAX 2.00	2.00
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00 MAX 2.00	-1.60
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.26
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00 MAX 2.00	0.19
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00 MAX 2.00	-1.80

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	4509

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CONTRACT

PROJECT **PRASA**

### MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE TBEXT**

**DTR0009706803**

SERIAL NUMBER **TBEXT 611**

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- Compliance certificate.....	Page 1/2	<input checked="" type="checkbox"/>
- List of deviations and missing parts.....	Page 2/2	<input checked="" type="checkbox"/>
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CONSTRUCTOR APPROVAL	
DATE	15 May 2024
NAME	<b>Kwababana Hlumisa</b>
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

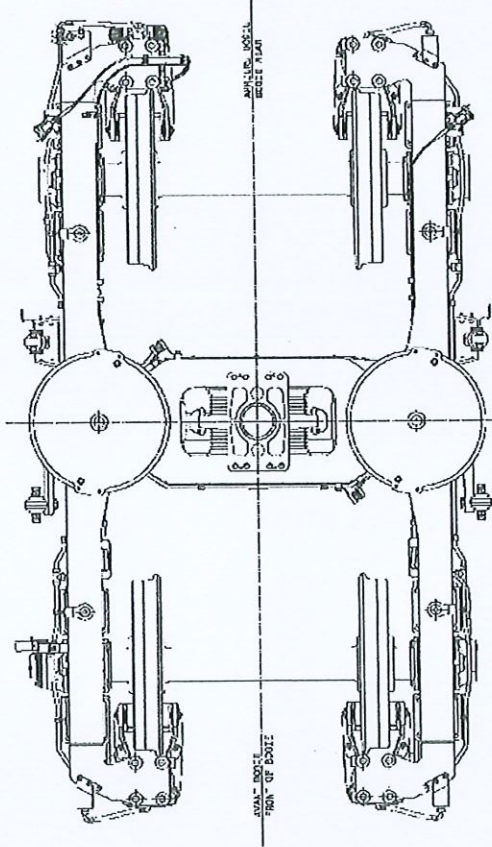
DATE 5/14/2024	PRASA	LOAD TEST : TBEXT
RESPONSABLE VALIDATION	INSTRUCTION SHEET:	PROJECT:
	FAMILY:	

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

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]	THEORETICAL [mm]
585.62	+	5.00 =	MIN 590.00 MAX 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



	THEORETICAL		MEASURED
	MIN	MAX	
LOAD DIFFERENCE ON FRONT AXLE [%]	0.00	0.00	1.14 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	0.00	0.00	0.26 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	0.00	0.00	0.06 ✓
LOAD DIFFERENCE ON RAILS [%]	0.00	0.00	0.70 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	0.00	0.00	-0.44 ✓

OPERATOR STAMP	DC-BFI-6
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LEFT JACK LOAD	8453 Kg
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SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.34	+	4.00 =	MIN 590.34 MAX 592.50

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

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

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	0.28
THEORETICAL [mm]	MIN -1.00 MAX 1.00