

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 - 634

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 July 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	634		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	TO 937		Alstom - Ubunye
Wheelset (Front)	AR000000177020	TO 1737		Alstom - Ubunye
Axle	AR00000174678	101508	1230044	Jinxi
Wheel (Right)	AR00000174670	127	04.24	Bonatrans
Wheel (Left)	AR000000174670	097	04.24	Bonatrans
Wheelset (Rear)	AR00000185203	TO 1738		Alstom Ubunye
Axle	AR00000174678	101496	1230044	Jinxi
Wheel (Right)	AR00000174670	129	04.24	Bonatrans
Wheel (Left)	AR00000174670	128	04.24	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2310171		TMT
Pneumatic suspension (Left)	AR00000176127	2310080		TMT
Brake unit with PB (Right rear)	AR00000174544	981	03.24	Wabtec
Brake unit without PB (Right front)	AR00000175185	2898	03.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	2900	03.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	2899	03.24	Wabtec

PRESSING REPORT

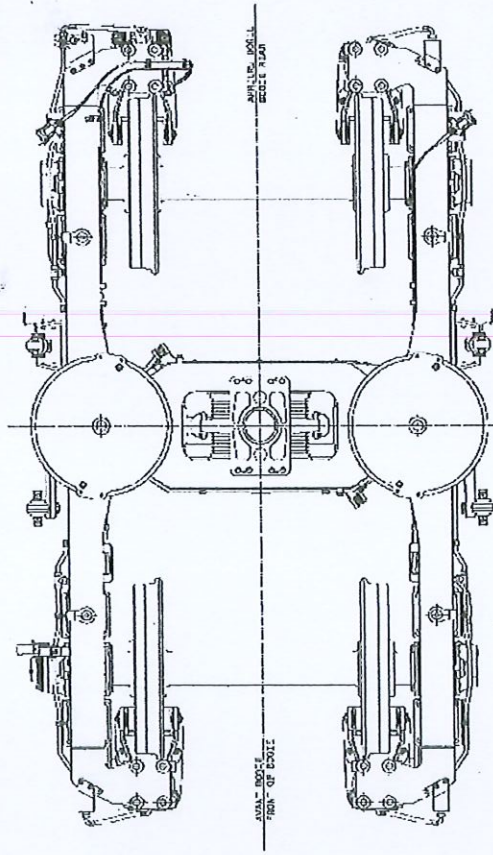
DATE 7/10/2024	PRASA	LOAD TEST : TBEXT
RESPONSABLE VALIDATION	INSTRUCTION SHEET:	PROJECT:
	FAMILY:	

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	33.00	35.00 ✓
	MAX	39.00	
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q4		5513

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
584.34	+	6.00 =	590.34
			MIN 590.00
			MAX 592.50

RIGHT JACK LOAD
8453 Kg

BOGIE SERIAL N°	634
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21929
COMPLETE BOGIE WEIGHT [Kg]	4677
OPERATOR	EDWARD
DATE	7/10/2024



LEFT JACK LOAD
8454 Kg

OPERATOR STAMP

BFI-21

	THEORETICAL		MEASURED
	MIN	MAX	
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN	0.00	1.08 ✓
	MAX	0.00	
LOAD DIFFERENCE ON REAR AXLE [%]	MIN	0.00	-0.80 ✓
	MAX	0.00	
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN	0.00	0.24 ✓
	MAX	0.00	
LOAD DIFFERENCE ON RAILS [%]	MIN	0.00	0.14 ✓
	MAX	0.00	
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN	0.00	-0.94 ✓
	MAX	0.00	

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
584.27	+	6.00 =	590.27
			MIN 590.00
			MAX 592.50

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

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	33.00	35.06 ✓
	MAX	39.00	
SHIM THICK [mm]	Q1		
WEIGHT ON WHEEL [Kg]	Q3		5555

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	33.00	34.53 ✓
	MAX	39.00	
SHIM THICK [mm]	Q3		
WEIGHT ON WHEEL [Kg]	Q3		5425

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

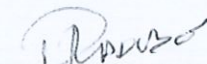
MANUFACTURER'S DELIVERY DOCUMENT	
PRODUCT TYPE	TRAILER BOGIE TBINT DTR0009706802
SERIAL NUMBER	TBINT 642

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	16 July 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	642		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	T0 927		Poland -MZ
Wheelset (Front)	AR000000177020	T0 1749		Alstom - Ubunye
Axle	AR00000174678	102104	D1230038	Jinxi
Wheel (Right)	AR00000174670	102	04-24	Bonatrans
Wheel (Left)	AR000000174670	116	04-24	Bonatrans
Wheelset (Rear)	AR00000185203	T0 1750		Alstom - Ubunye
Axle	AR00000174678	102164	D1230039	Jinxi
Wheel (Right)	AR00000174670	108	04-24	Bonatrans
Wheel (Left)	AR00000174670	063	04-24	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2309168		TMT
Pneumatic suspension (Left)	AR00000176127	2310004		TMT
Brake unit with PB (Right rear)	AR00000174544	1004	06-2024	Wabtec
Brake unit without PB (Right front)	AR00000175185	2976	06-2024	Wabtec
Brake unit without PB (Left Front)	AR00000175185	2977	06-2024	Wabtec
Brake unit without PB (left rear)	AR00000175185	2978	06-2024	Wabtec

PRESSING REPORT

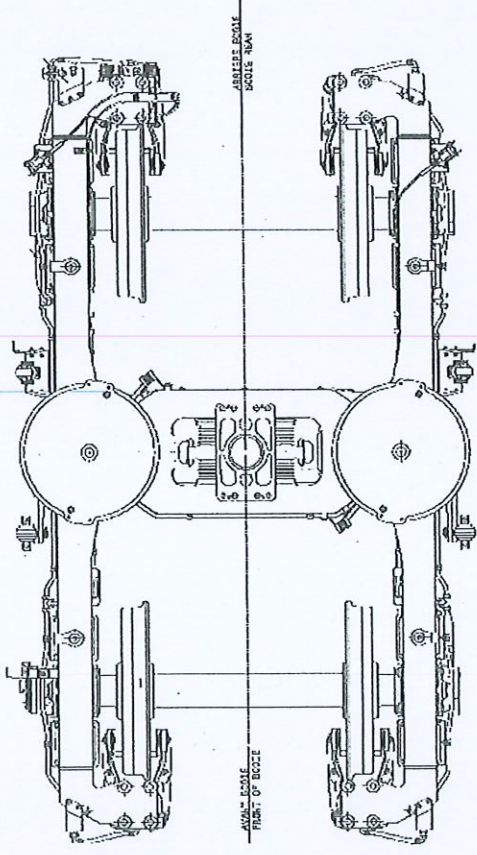
7/15/2024	PRASA	LOAD TEST : TBINT
RESPONSIBLE VALIDATION	INSTRUCTION SHEET:	PROJECT: PRASA
	FAMILY:	

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]	34.50	40.50	37.91
GAP PRIMARY SUSPENSION [mm]	34.50	40.50	✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q4		4592

MEASURED [mm]	SECONDARY SUSPENSION		THEORETICAL [mm]
	SHIM THICK [mm]	DIM. WITH SHIM [mm]	
586.14	+	0.00	MIN 587.50 MAX 590.00
	=	586.14	

RIGHT JACK LOAD	6694 Kg
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BOGIE SERIAL N°	642
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18370
COMPLETE BOGIE WEIGHT [Kg]	4628
OPERATOR	EDWARD
DATE	7/15/2024



OPERATOR STAMP	BFI-21
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	THEORETICAL		MEASURED
	MIN	MAX	
LOAD DIFFERENCE ON FRONT AXLE [%]	-2.00	2.00	0.86
LOAD DIFFERENCE ON REAR AXLE [%]	-2.00	2.00	0.38
LOAD DIFFERENCE ON FRONT AXLE AND REAR AXLE [%]	-2.00	2.00	-0.37
LOAD DIFFERENCE ON RAILS [%]	-2.00	2.00	0.62
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	-2.00	2.00	-0.24

LEFT JACK LOAD	6695 Kg
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	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]	34.50	40.50	37.22
GAP PRIMARY SUSPENSION [mm]	34.50	40.50	✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q3		4627

MEASURED [mm]	SECONDARY SUSPENSION		THEORETICAL [mm]
	SHIM THICK [mm]	DIM. WITH SHIM [mm]	
586.90	+	0.00	MIN 587.50 MAX 590.00
	=	586.90	

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	✓	THEORETICAL [mm]	MIN -1.00 MAX 1.00
	-0.76		

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]	34.50	40.50	37.35
GAP PRIMARY SUSPENSION [mm]	34.50	40.50	✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q1		4615