

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 - 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"/>

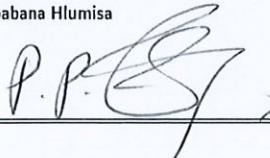
COMPLIANCE CERTIFICATE

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

06 June 2024
Kwababana Hlumisa



I - Deviation / Derogation

II - Bogie configuration

B Bogie index



ALSTOM UBUNYE

PRODUCTS TRACEABILITY

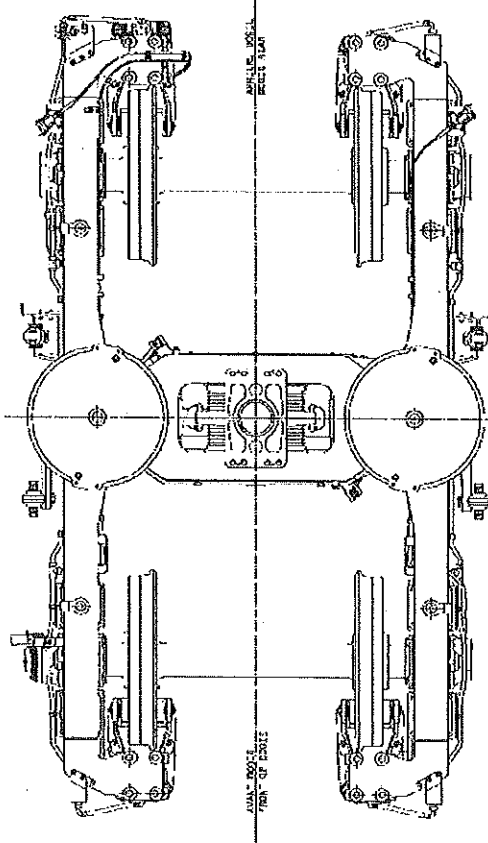
Products Designation	Product Reference	Serial Number	Batch or Date Manufactured	Supplier
Trailer Bogie TBEXT	DTR0009706803	617		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T0 907		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T0 1673		Alstom - Ubunye
Axle	AR00000174678	109233	12/76723	Jinxi
Wheel (Right)	AR00000174670	008	07.23	Bonatrans
Wheel (Left)	AR000000174670	001	07.23	Bonatrans
Wheelset (Rear)	AR00000185203	T0 1674		Alstom Ubunye
Axle	AR00000174678	107259	12/76717	Jinxi
Wheel (Right)	AR00000174670	144	10.23	Bonatrans
Wheel (Left)	AR00000174670	145	10.23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2403055		TMT
Pneumatic suspension (Left)	AR00000176127	2403053		TMT
Brake unit with PB (Right rear)	AR00000174544	1815	05.24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5446	05.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5448	05.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5449	05.24	Wabtec

5/31/2024

5/31/2024	DATE VALIDATION	RESPONSABLE VALIDATION
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SECONDARY SUSPENSION		ϕ
MEASURED [mm]	SHIM THICK [mm]	
586.36	+ 4.00	DIM. WITH SHIM[mm] MIN 590.00 MAX 592.50

RIGHT JACK LOAD	8453 Kg
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BOGIE SERIAL N°	617
BOGIE TYPE	T8TEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21900
COMPLETE BOGIE WEIGHT [Kg]	4662
OPERATOR	DATE
BAFANA	5/31/2024

DC-371-6

		THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN	0.00	0.63
	MAX	0.00	
LOAD DIFFERENCE ON REAR AXLE [%]	MIN	0.00	0.26
	MAX	0.00	
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN	0.00	0.10
	MAX	0.00	
LOAD DIFFERENCE ON RAILS [%]	MIN	0.00	0.44
	MAX	0.00	
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN	0.00	-0.19
	MAX	0.00	

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.10 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [kg]	Q1	5515

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
584.17	+	6.00	MIN 590.00 MAX 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	
0.19	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	37.70
SHIM THICK [mm]		
WEIGHT ON WHEEL [kg]	Q 4	5456

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 32.00 MAX 39.00	36.59 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5484

MANUFACTURER ALSTOM Ubunye
 Marievale Road, Vosterkroon, Nigel, 1490

CUSTOMER Gibela

CONTRACT

PROJECT PRASA

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE TRAILER BOGIE type TBINT

DTR0009706802

SERIAL NUMBER TBINT - 623

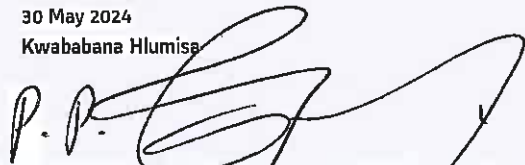
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CONSTRUCTOR APPROVAL

DATE	30 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	623		Alstom - Abunye
Trailer Bogie Frame	AR000000176083	903		Alstom - Ubunye
Wheelset (Front)	AR0000000177020	1675		Alstom - Ubunye
Axle	AR000000174678	114902	12/17/6732	Jinxi
Wheel (Right)	AR000000174670	098	07.23	Bonatrans
Wheel (Left)	AR0000000174670	126	10.23	Bonatrans
Wheelset (Rear)	AR000000185203	1676		Alstom Ubunye
Axle	AR000000174678	114530	12/17/6733	Jinxi
Wheel (Right)	AR000000174670	007	07.23	Bonatrans
Wheel (Left)	AR000000174670	127	10.23	Bonatrans
Pneumatic suspension (Right)	AR000000176127	2311119		TMT
Pneumatic suspension (Left)	AR000000176127	2311120		TMT
Brake unit with PB (Right rear)	AR000000174544	1813	05.24	WABTEC
Brake unit without PB (Right front)	AR000000175185	5466	05.24	WABTEC
Brake unit without PB (Left Front)	AR000000175185	5465	05.24	WABTEC
Brake unit without PB (left rear)	AR000000175185	5464	05.24	WABTEC

PRESSING REPORT

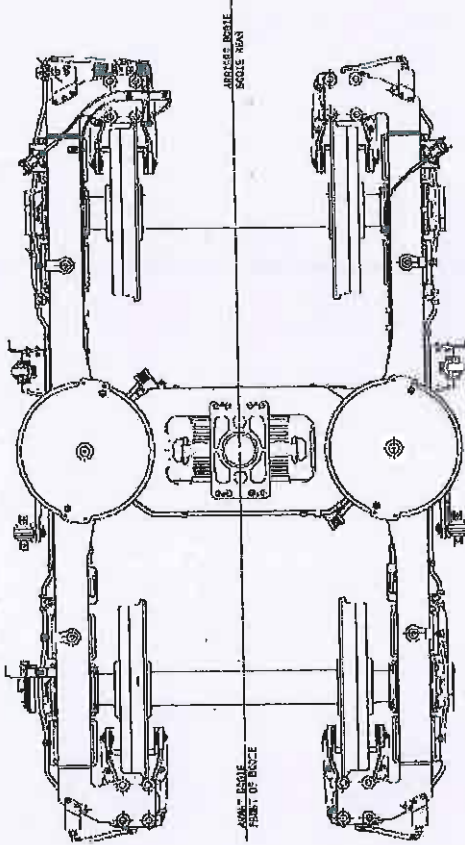
DATE 5/30/2024	RESPONSABLE VALIDATION	PRASA	LOAD TEST : TEINT
DATE VALIDATION		INSTRUCTION SHEET:	PROJECT: PRASA
		FAMILY:	

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN	36.78
	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	36.78
	MAX	
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	4633

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]	THEORETICAL [mm]
585.42	+	3.00	MIN
			=
			588.42
			MAX
			590.00

RIGHT JACK LOAD	Kg
6695	

BOGIE SERIAL N°	623
BOGIE TYPE	TEINT
BOGIE WEIGHT UNDER LOAD [Kg]	18349
COMPLETE BOGIE WEIGHT [Kg]	4608
OPERATOR	EDWARD
DATE	5/30/2024



OPERATOR STAMP
BFI-21

THEORETICAL		MEASURED	
WHEEL DIAMETER [mm]	MIN	35.02	
	MAX		
GAP PRIMARY SUSPENSION [mm]	MIN		34.50
	MAX		40.50
SHIM THICK [mm]			
WEIGHT ON WHEEL [kg]	Q3		
		4569	

6695		Kg		
SECONDARY SUSPENSION				
		J		
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]	
586.08	+	2.00	=	
				588.08
			MIN	
			587.50	
			MAX	
			590.00	

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

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN	36.22
	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	36.22
	MAX	
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	4654