

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

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE TBEXT**
DRT0009706803
SERIAL NUMBER **TBEXT 591**

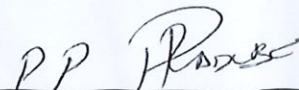
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- Compliance certificate.....	Page 1/2	<input checked="" type="checkbox"/>
- List of deviations and missing parts.....	Page 2/2	<input checked="" type="checkbox"/>
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- Load test report.....	1 page	<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 March 2024
NAME	Kwababana Hlumisa
VISA	

I - Deviation / Derogation

II - Bogie configuration

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ALSTOM UBUNYE PRODUCTS TRACEABILITY

Products Designation	Product Reference	Serial Number	Batch or Date Manufactured	Supplier
Trailer Bogie TBEXT	DTR0009706803	591		Alstom - Abunye
Trailer Bogie Frame	AR000000176083	T0 851		Alstom - Ubunye
Wheelset (Front)	AR0000000177020	T0 1573		Alstom - Ubunye
Axle	AR000000174678	102158	D1230038	Jinxi
Wheel (Right)	AR000000174670	196	12-23	Bonatrans
Wheel (Left)	AR0000000174670	180	12-23	Bonatrans
Wheelset (Rear)	AR000000185203	T0 1574		Alstom Ubunye
Axle	AR000000174678	107302	12176717	Jinxi
Wheel (Right)	AR000000174670	016	11-23	Bonatrans
Wheel (Left)	AR000000174670	193	12-23	Bonatrans
Pneumatic suspension (Right)	AR000000176127	2401099		TMT
Pneumatic suspension (Left)	AR000000176127	2312164		TMT
Brake unit with PB (Right rear)	AR000000174544	1653	03-24	Wabtec
Brake unit without PB (Right front)	AR000000175185	4990	03-24	Wabtec
Brake unit without PB (Left Front)	AR000000175185	4991	03-24	Wabtec
Brake unit without PB (left rear)	AR000000175185	4992	03-24	Wabtec

DATE VALIDATION

RESPONSABLE, VALIDATION

PRASA 45 41877000

PRESSING REPORT

LOAD TEST : TBEXT

PROJECT:

FAMILY:

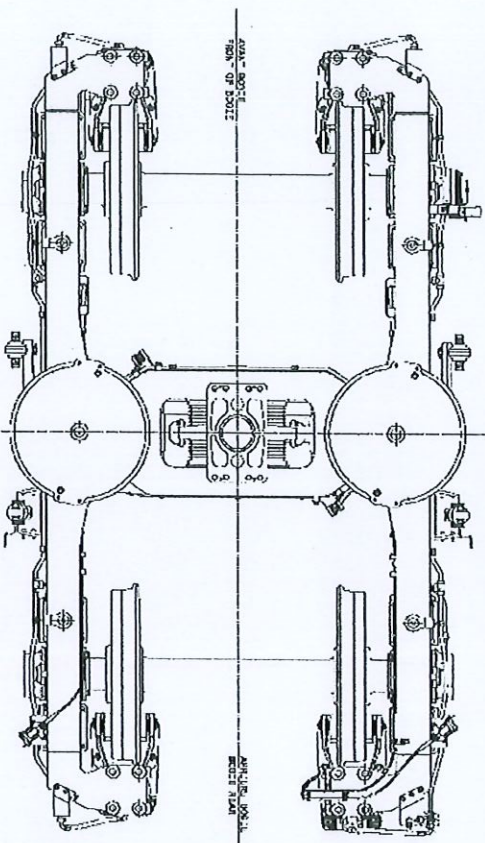
	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	36.79
SHIM THICK [mm]		
WEIGHT ON WHEEL [kg]	Q2	5424

SECONDARY SUSPENSION				ϕ
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]	THEORETICAL [mm]	
586.06	+	4.00	=	590.00
				MIN
				590.06
				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	37.32
SHIM THICK [mm]		
WEIGHT ON WHEEL [kg]	Q4	5459

BOGIE SERIAL N°	591
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21864
COMPLETE BOGIE WEIGHT [Kg]	4618
OPERATOR	DATE
BAFANA	3/15/2024



	THEORETICAL	MEASURED	
LOAD DIFFERENCE ON FRONT AXLE [1%]	MIN 0.00 MAX 0.00	0.39	☞
LOAD DIFFERENCE ON REAR AXLE [1%]	MIN 0.00 MAX 0.00	0.02	☞
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [1%]	MIN 0.00 MAX 0.00	0.11	☞
LOAD DIFFERENCE ON RAILS [1%]	MIN 0.00 MAX 0.00	0.45	☞
LOAD DIFFERENCE ON DIAGONAL WHEELS [1%]	MIN 0.00 MAX 0.00	-0.43	☞

OPERATOR STAMP

DC-BF/00

LEFT JACK LOAD
8453 Kg

SECONDARY SUSPENSION				\varnothing
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]	
588.22	+	2.00	=	590.22
				MIN 590.00
				MAX 592.50

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	*
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	36.90 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [kg]	Q1	5521

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	φ	THEORETICAL [mm]
-0.16		MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	36.81 ø
SHIM THICK [mm]		
WEIGHT ON WHEEL [kg]	Q3	5461



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 - 597

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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 March 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	597		Alstom - Ubunye
Trailer Bogie Frame	AR000000176083	T0 853		Poland -MZ
Wheelset (Front)	AR0000000177020	T0 1569		Alstom - Ubunye
Axle	AR000000174678	114919	12/76732	Jinxi
Wheel (Right)	AR000000174670	123	07.23	Bonatrans
Wheel (Left)	AR0000000174670	158	10.23	Bonatrans
Wheelset (Rear)	AR000000185203	T0 1570		Alstom - Ubunye
Axle	AR000000174678	114964	12/76732	Jinxi
Wheel (Right)	AR000000174670	121	07.23	Bonatrans
Wheel (Left)	AR000000174670	050	10.23	Bonatrans
Pneumatic suspension (Right)	AR000000176127	2310225		TMT
Pneumatic suspension (Left)	AR000000176127	2312022		TMT
Brake unit with PB (Right rear)	AR000000174544	1652	03.24	Wabtec
Brake unit without PB (Right front)	AR000000175185	4977	03.24	Wabtec
Brake unit without PB (Left Front)	AR000000175185	4976	03.24	Wabtec
Brake unit without PB (left rear)	AR000000175185	4979	03.24	Wabtec

DATE 3/15/2024		PRASA	
DATE VALIDATION		INSTRUCTION SHEET:	
		FAMILY:	
		LOAD TEST : TBINT	
		PROJECT: PRASA	

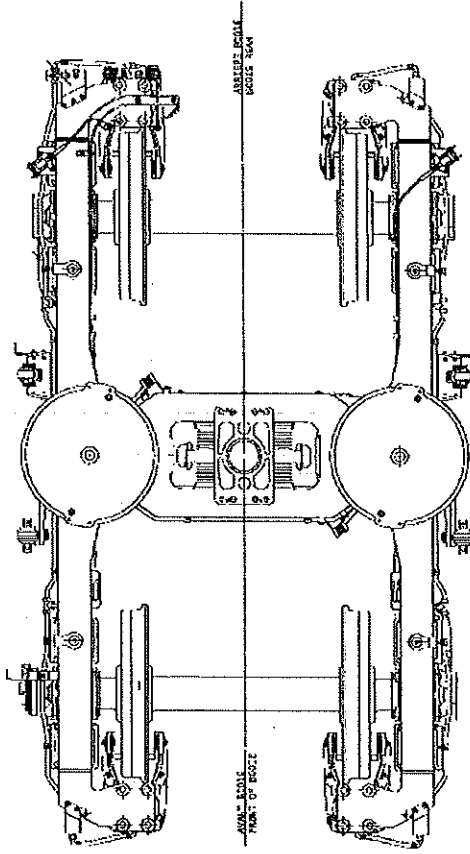
PRESSING REPORT

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	39.11 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q2		4552

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.28	+	0.00	589.28
			MIN 587.50
			MAX 590.00

RIGHT JACK LOAD	Kg
6695	

BOGIE SERIAL N°	597
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18316
COMPLETE BOGIE WEIGHT [Kg]	4573
OPERATOR	EDWARD
DATE	3/15/2024
OPERATOR STAMP	BFI-21



LOAD DIFFERENCE ON FRONT AXLE [%]	THEORETICAL		MEASURED
	MIN	MAX	
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00	MAX 2.00	0.39 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00	MAX 2.00	0.94 ✓
FRONT AXLE AND REAR AXLE [%]	MIN -2.00	MAX 2.00	-0.19 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00	MAX 2.00	0.67 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00	MAX 2.00	0.27 ✓

LEFT JACK LOAD	Kg
6695	

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	38.89 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q1		4588

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.31	+	0.00	589.31
			MIN 587.50
			MAX 590.00

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

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	38.66 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q3		4630