

MANUFACTURER **ALSTOM** Ubunye
 Marievale Road, Vosterkroon, Nigel, 1490

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE TBEXT**

DTR0009706803

SERIAL NUMBER **TBEXT 603**

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	19 April 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	603		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T878		Alstom - Ubunye
Wheelset (Front)	AR000000177020	701619		Alstom - Ubunye
Axle	AR00000174678	102166	D1230038	Jinxi
Wheel (Right)	AR00000174670	123	10-23	Bonatrans
Wheel (Left)	AR000000174670	124	10-23	Bonatrans
Wheelset (Rear)	AR00000185203	701620		Alstom Ubunye
Axle	AR00000174678	102086	D1230038	Jinxi
Wheel (Right)	AR00000174670	139	10-23	Bonatrans
Wheel (Left)	AR00000174670	131	10-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2401113		TMT
Pneumatic suspension (Left)	AR00000176127	2311100		TMT
Brake unit with PB (Right rear)	AR00000174544	1719	04-24	WABTEC
Brake unit without PB (Right front)	AR00000175185	5180	04-24	WABTEC
Brake unit without PB (Left Front)	AR00000175185	5179	04-24	WABTEC
Brake unit without PB (left rear)	AR00000175185	5181	04-24	WABTEC

DATE
4/18/2024

RESPONSABLE VALIDATION

PRESSING REPORT

PRASA
INSTRUCTION SHEET:
FAMILY:

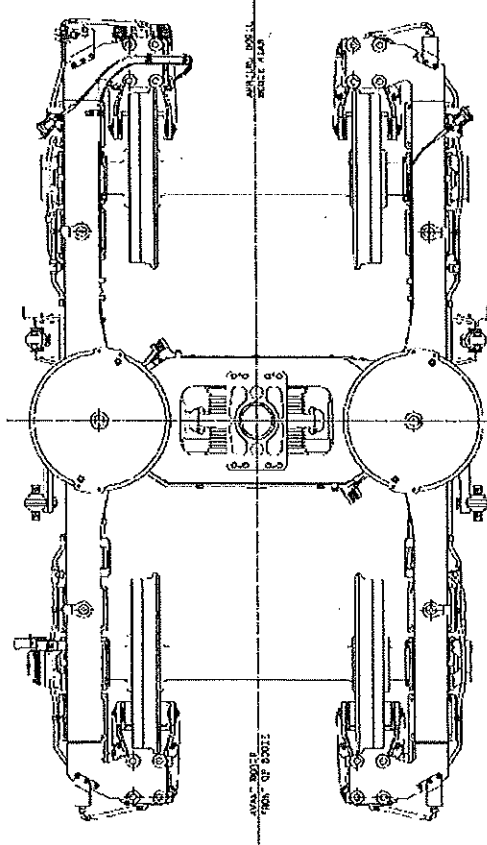
LOAD TEST : TBEXT
PROJECT:

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	33.00	39.00	37.81 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q2		5472

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]	THEORETICAL [mm]
588.35	+	2.00 =	590.35 MIN 592.50 MAX

RIGHT JACK LOAD	8453 Kg
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BOGIE SERIAL N°	603
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21929
COMPLETE BOGIE WEIGHT [Kg]	4678
OPERATOR	BAFANA
DATE	4/18/2024
OPERATOR STAMP	DC-3716



	THEORETICAL		MEASURED
	MIN	MAX	
LOAD DIFFERENCE ON FRONT AXLE [%]	0.00	0.00	0.25 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	0.00	0.00	0.43 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	0.00	0.00	0.05 ✓
LOAD DIFFERENCE ON RAILS [%]	0.00	0.00	0.34 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	0.00	0.00	0.09 ✓

LEFT JACK LOAD	8453 Kg
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	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	33.00	39.00	37.81 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q1		5499

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.92	+	2.00 =	590.92 MIN 592.50 MAX
DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			
	-0.57		MIN -1.00 MAX 1.00

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	33.00	39.00	37.20 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q3		5503

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 - 611

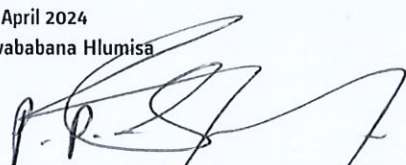
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COMPLIANCE CERTIFICATE

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CONSTRUCTOR APPROVAL

DATE	23 April 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	611		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	T0 880		Poland -MZ
Wheelset (Front)	AR000000177020	T0 1627		Alstom - Ubunye
Axle	AR00000174678	102136	12330038	Jinxi
Wheel (Right)	AR00000174670	175	12.23	Bonatrans
Wheel (Left)	AR000000174670	005	10.23	Bonatrans
Wheelset (Rear)	AR00000185203	T0 1628		Alstom - Ubunye
Axle	AR00000174678	102079	1230038	Jinxi
Wheel (Right)	AR00000174670	002	10.23	Bonatrans
Wheel (Left)	AR00000174670	003	10.23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2311099		TMT
Pneumatic suspension (Left)	AR00000176127	2312041		TMT
Brake unit with PB (Right rear)	AR00000174544	1732	04.24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5220	04.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5219	04.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5218	04.24	Wabtec

DATE
4/22/2024

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 34.50 MAX 40.50	39.35 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	4501

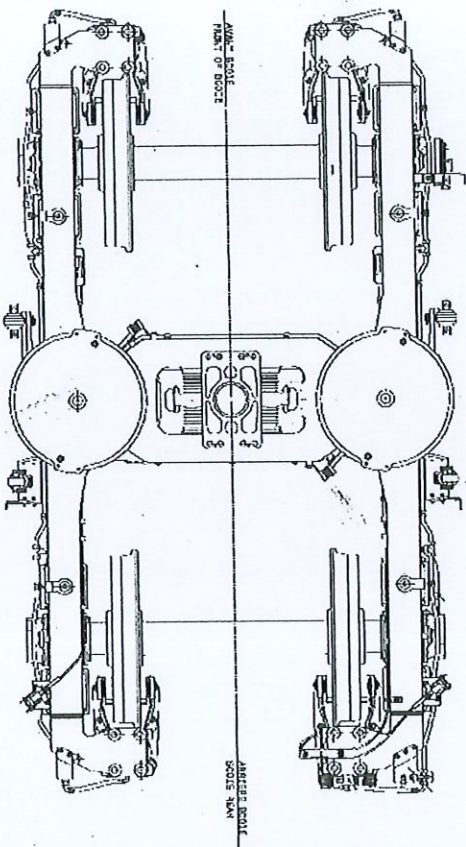
SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.69	+	0.00	= 588.69
			MIN 587.50 MAX 590.00

RIGHT JACK LOAD
6694 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	39.22 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	4641

BOGIE SERIAL N°	611
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18348
COMPLETE BOGIE WEIGHT [Kg]	4617
OPERATOR	DATE
EDWARD	4/22/2024

OPERATOR STAMP
BFI-21



LEFT JACK LOAD
6695 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	39.08 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	4642

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.48	+	0.00	= 589.48
			MIN 587.50 MAX 590.00
DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			✓
-0.79			MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN -2.00 MAX 2.00	1.54 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.84 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.34 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00 MAX 2.00	0.35 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00 MAX 2.00	-1.19 ✓

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	39.36 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	4564