

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	T01619		Alstom - Ubunye
Axle	AR00000174678	102166	D1230038	Jinxi
Wheel (Right)	AR00000174670	123	10-23	Bonatrans
Wheel (Left)	AR000000174670	124	10-23	Bonatrans
Wheelset (Rear)	AR00000185203	T01620		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

PRESSING REPORT

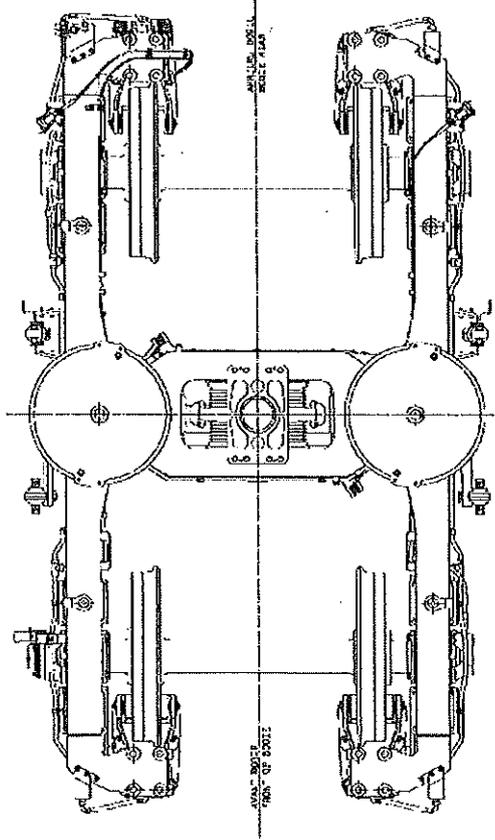
DATE 4/13/2024	RESPONSIBLE VALIDATION	PRASA	LOAD TEST: TBEXT
DATE VALIDATION		INSTRUCTION SHEET:	PROJECT:
		FAMILY:	

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

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

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
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	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE ON REAR AXLE [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE ON RAILS [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN	0.00
	MAX	0.00

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

SECONDARY SUSPENSION		
MEASURED [mm]	SHIM THICK [mm]	THEORETICAL [mm]
588.92	+	MIN
	2.00	MAX
	=	590.92
		592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	
-0.57	
	THEORETICAL [mm]
	MIN
	MAX
	-1.00
	1.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN	
	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	33.00
	MAX	39.00
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

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"/>

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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	008	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

PRESSING REPORT

DATE
4/22/2024

RESPONSABLE VALIDATION

PRASA
INSTRUCTION SHEET:
FAMILY:

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

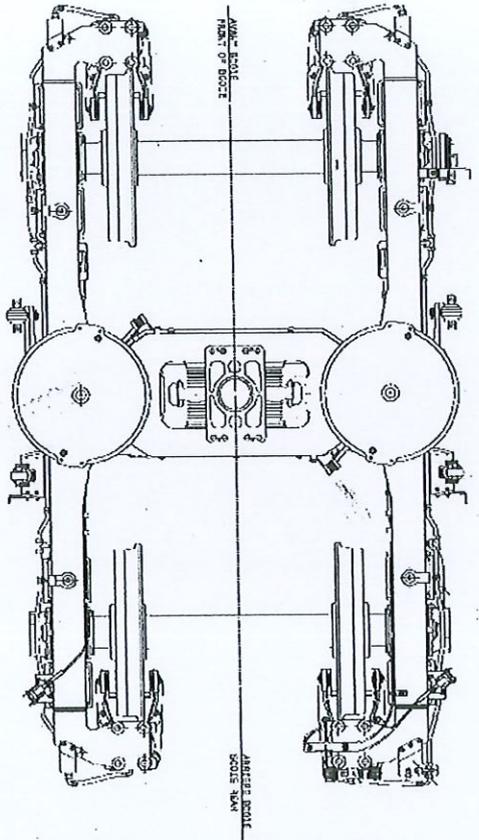
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.69	+	0.00	= 588.69
			MIN 587.50 MAX 590.00

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	EDWARD
DATE	4/22/2024

OPERATOR STAMP
BF1-21



LEFT JACK LOAD
6695 Kg

	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	39.08
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]			THEORETICAL [mm]
-0.79			MIN -1.00 MAX 1.00

	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