



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 623**

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	24 June 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	623		Alstom - Ubunye
Trailer Bogie Frame	AR000000176083	7914		Alstom - Ubunye
Wheelset (Front)	AR0000000177020	1697		Alstom - Ubunye
Axle	AR000000174678	102106	D1230038	Jinxi
Wheel (Right)	AR000000174670	050	03-24	Bonatrans
Wheel (Left)	AR0000000174670	051	03-24	Bonatrans
Wheelset (Rear)	AR000000185203	1698		Alstom - Ubunye
Axle	AR000000174678	102156	D1230038	Jinxi
Wheel (Right)	AR000000174670	002	03-24	Bonatrans
Wheel (Left)	AR000000174670	003	03-24	Bonatrans
Pneumatic suspension (Right)	AR000000176127	23 12 038		TMT
Pneumatic suspension (Left)	AR000000176127	23 12 051		TMT
Brake unit with PB (Right rear)	AR000000174544	1829	06-24	Wabtec
Brake unit without PB (Right front)	AR000000175185	5575	06-24	Wabtec
Brake unit without PB (Left Front)	AR000000175185	5536	06-24	Wabtec
Brake unit without PB (left rear)	AR000000175185	5538	06-24	Wabtec

PRESSING REPORT

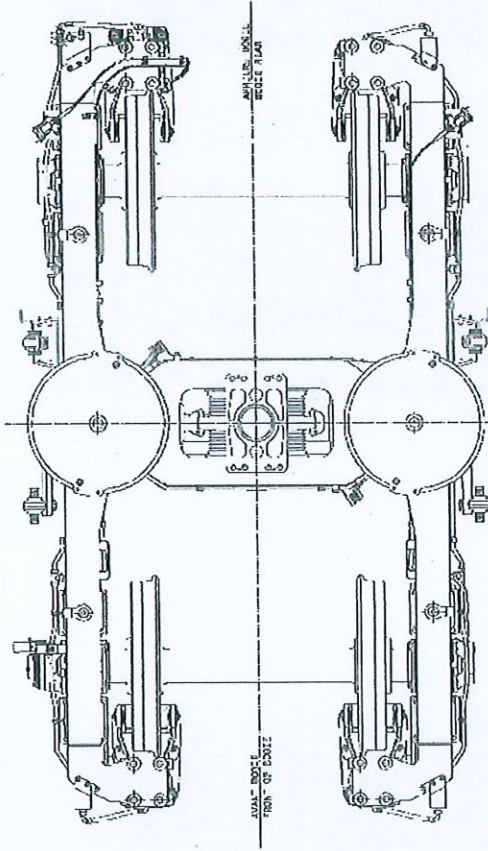
DATE 6/12/2024	RESPONSABLE VALIDATION	PRASA	LOAD TEST: TBEXT
DATE VALIDATION		INSTRUCTION SHEET:	PROJECT:
		FAMILY:	

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	MIN 33.00	MAX 39.00	36.38
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q4		5464

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
583.47	+	7.00 =	MIN 590.00 MAX 592.50

RIGHT JACK LOAD	8453	Kg
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BOGIE SERIAL N°	623
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21837
COMPLETE BOGIE WEIGHT [Kg]	4649
OPERATOR	BAFANA
DATE	6/12/2024



	THEORETICAL		MEASURED
	MIN	MAX	
LOAD DIFFERENCE ON FRONT AXLE [%]	0.00	0.00	0.97
LOAD DIFFERENCE ON REAR AXLE [%]	0.00	0.00	-0.05
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	0.00	0.00	0.19
LOAD DIFFERENCE ON RAILS [%]	0.00	0.00	0.46
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	0.00	0.00	-0.51

OPERATOR STAMP	DC-3FI-6
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LEFT JACK LOAD	8453	Kg
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SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
585.49	+	5.00 =	MIN 590.49 MAX 592.50

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	MIN 33.00	MAX 39.00	35.50
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q1		5535

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	-0.02
THEORETICAL [mm]	MIN -1.00 MAX 1.00

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	MIN 33.00	MAX 39.00	35.90
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q3		5459



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

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE TBINT**
DTR0009706802
SERIAL NUMBER **TBINT 629**

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"/>
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CONSTRUCTOR APPROVAL	
DATE	24 June 2024
NAME	Kwababana Hlumisa
VISA	

	DELIVERY STATUS	PRASA TBINT 629
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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	630		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	921		Alstom - Ubunye
Wheelset (Front)	AR000000177020	701703		Alstom - Ubunye
Axle	AR00000174678	101517	D1230044	Jinxi
Wheel (Right)	AR00000174670	122	10-23	Bonatrans
Wheel (Left)	AR000000174670	056	10-23	Bonatrans
Wheelset (Rear)	AR00000185203	701704		Alstom Ubunye
Axle	AR00000174678	105185	D1230031	Jinxi
Wheel (Right)	AR00000174670	059	10-23	Bonatrans
Wheel (Left)	AR00000174670	123	10-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2403062		TMT
Pneumatic suspension (Left)	AR00000176127	2403058		TMT
Brake unit with PB (Right rear)	AR00000174544	1809	05-24	WABTEC
Brake unit without PB (Right front)	AR00000175185	2922	05-2024	WABTEC Poli
Brake unit without PB (Left Front)	AR00000175185	2923	05-2024	WABTEC Poli
Brake unit without PB (left rear)	AR00000175185	2924	05-2024	WABTEC Poli

6/14/2024

DATE VALIDATION

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	38.60 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [KG]	Q2	4536

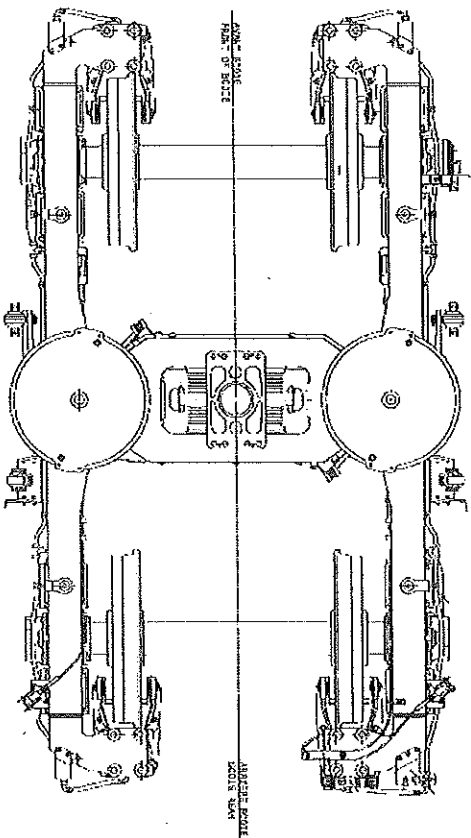
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]	THEORETICAL [mm]
588.54	+	0.00	= 588.54
			MIN 587.50 MAX 590.00

RIGHT JACK LOAD	
	6695 KG

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	38.30 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [KG]	Q4	4574

BOGIE SERIAL N°	630
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [KG]	18322
COMPLETE BOGIE WEIGHT [KG]	4595
OPERATOR	EDWARD
DATE	6/14/2024

OPERATOR STAMP
DC-5146



LEFT JACK LOAD	
	6694 KG

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	38.20 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [KG]	Q1	4600

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.12	+	0.00	= 588.12
			MIN 587.50 MAX 590.00

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

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN -2.00 MAX 2.00	0.70 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00 MAX 2.00	0.41 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.27 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00 MAX 2.00	0.56 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00 MAX 2.00	-0.14 ✓

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	38.33 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [KG]	Q3	4612