

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 601

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	15 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	601		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T865		Alstom - Ubunye
Wheelset (Front)	AR000000177020	701611		Alstom - Ubunye
Axle	AR00000174678	101495	D1230044	Jinxi
Wheel (Right)	AR00000174670	046	11-23	Bonatrans
Wheel (Left)	AR000000174670	132	10-23	Bonatrans
Wheelset (Rear)	AR00000185203	701612		Alstom Ubunye
Axle	AR00000174678	102149	D1230038	Jinxi
Wheel (Right)	AR00000174670	067	11-23	Bonatrans
Wheel (Left)	AR00000174670	032	11-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2310081		TMT
Pneumatic suspension (Left)	AR00000176127	2308133		TMT
Brake unit with PB (Right rear)	AR00000174544	1709	04-23	WABTEC
Brake unit without PB (Right front)	AR00000175185	5143	04-24	WABTEC
Brake unit without PB (Left Front)	AR00000175185	5146	04-24	WABTEC
Brake unit without PB (left rear)	AR00000175185	5144	04-24	WABTEC

DATE
4/12/2024

DATE VALIDATION

RESPONSABLE VALIDATION

PRASA

INSTRUCTION SHEET:

PRESSING REPORT

LOAD TEST : TBEXT

PROJECT:

FAMILY:

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	36.91 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	5446

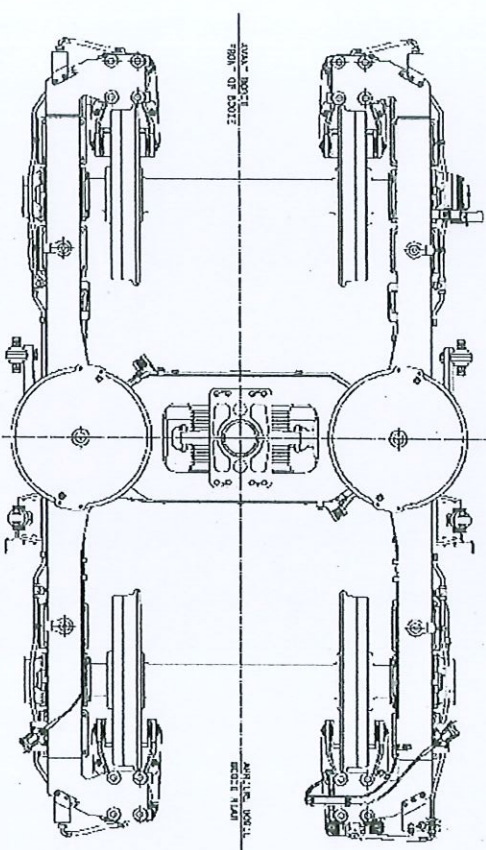
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.80	+	4.00	= 590.80
			MIN 590.00 MAX 592.50

RIGHT JACK LOAD	
8453	Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.10 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	5476

BOGIE SERIAL N°	601
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21914
COMPLETE BOGIE WEIGHT [Kg]	4669
OPERATOR	DATE
BARANA	4/12/2024

OPERATOR STAMP	
DC-371-6	



LEFT JACK LOAD	
8453	Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	36.40 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5520

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
585.11	+	5.00	= 590.11
			MIN 590.00 MAX 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]		0.69	MIN -1.00 MAX 1.00
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	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN 0.00 MAX 0.00	0.67 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN 0.00 MAX 0.00	-0.04 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN 0.00 MAX 0.00	0.08 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN 0.00 MAX 0.00	0.32 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN 0.00 MAX 0.00	-0.36 ✓

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	36.47 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5472

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CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE 607**

DTR0009706802

SERIAL NUMBER **TBINT 607**

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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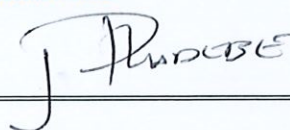
COMPLIANCE CERTIFICATE

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CONSTRUCTOR APPROVAL

DATE
NAME
VISA

12 April 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 TBINT	DTR0009706802	607		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	7873		Alstom - Ubunye
Wheelset (Front)	AR000000177020	701609		Alstom - Ubunye
Axle	AR00000174678	107277	12176717	Jinxi
Wheel (Right)	AR00000174670	147	10-23	Bonatrans
Wheel (Left)	AR000000174670	135	10-23	Bonatrans
Wheelset (Rear)	AR00000185203	761610		Alstom Ubunye
Axle	AR00000174678	109292	12176724	Jinxi
Wheel (Right)	AR00000174670	080	10-23	Bonatrans
Wheel (Left)	AR00000174670	133	10-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2308150		TMT
Pneumatic suspension (Left)	AR00000176127	2311015		TMT
Brake unit with PB (Right rear)	AR00000174544	1710	04-24	WABTEC
Brake unit without PB (Right front)	AR00000175185	5157	04-24	WABTEC
Brake unit without PB (Left Front)	AR00000175185	5147	04-24	WABTEC
Brake unit without PB (left rear)	AR00000175185	5145	04-24	WABTEC

PRESSING REPORT

4/11/2024		RESPONSABLE VALIDATION		PRASA		LOAD TEST : TBINT	
DATE VALIDATION				INSTRUCTION SHEET:		PROJECT: PRASA	
				FAMILY:			

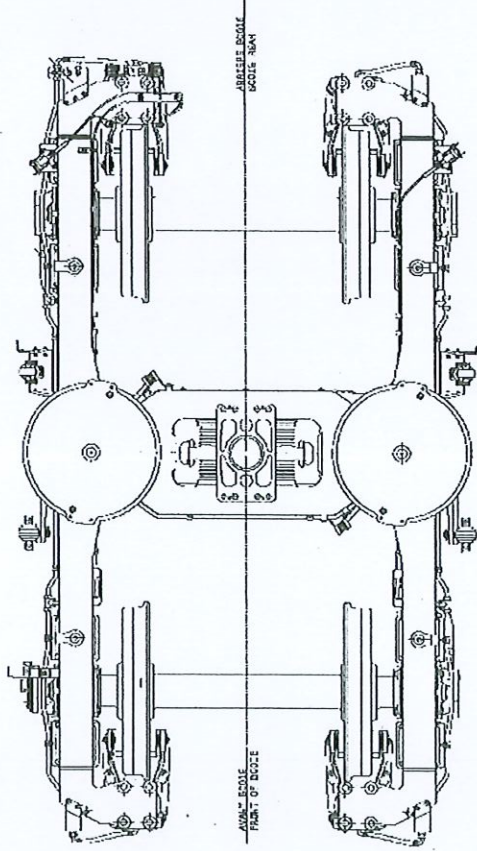
		THEORETICAL		MEASURED	
WHEEL DIAMETER [mm]	MIN				
	MAX				
GAP PRIMARY SUSPENSION [mm]	MIN	34.50			
	MAX	40.50		38.79	
SHIM THICK [mm]					
WEIGHT ON WHEEL [Kg]		Q4		4613	

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

RIGHT JACK LOAD	
6695	Kg

BOGIE SERIAL N°	607
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18373
COMPLETE BOGIE WEIGHT [Kg]	4616
OPERATOR	EDWARD
DATE	4/11/2024

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		38.87	
SHIM THICK [mm]					
WEIGHT ON WHEEL [Kg]		Q1		4587	

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.43	+	0.00	=
		588.43	MIN
			MAX
			587.50
			590.00

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]		
0.26		
		THEORETICAL [mm]
		MIN
		MAX
		-1.00
		1.00

		THEORETICAL		MEASURED	
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN	-2.00			
	MAX	2.00		0.09	
LOAD DIFFERENCE ON REAR AXLE [%]	MIN	-2.00			
	MAX	2.00		-0.22	
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN	-2.00			
	MAX	2.00		-0.22	
LOAD DIFFERENCE ON RAILS [%]	MIN	-2.00			
	MAX	2.00		-0.07	
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN	-2.00			
	MAX	2.00		-0.15	

		THEORETICAL		MEASURED	
WHEEL DIAMETER [mm]	MIN				
	MAX				
GAP PRIMARY SUSPENSION [mm]	MIN	34.50			
	MAX	40.50		37.95	
SHIM THICK [mm]					
WEIGHT ON WHEEL [Kg]		Q3		4593	