

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 615**

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	23 May 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	615		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T0 898		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T0 1665		Alstom - Ubunye
Axle	AR00000174678	101488	0123-0044	Jinxi
Wheel (Right)	AR00000174670	099	10-23	Bonatrans
Wheel (Left)	AR000000174670	096	07-23	Bonatrans
Wheelset (Rear)	AR00000185203	T0 1666		Alstom Ubunye
Axle	AR00000174678	101510	0123-0044	Jinxi
Wheel (Right)	AR00000174670	115	10-23	Bonatrans
Wheel (Left)	AR00000174670	005	07-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2401023		TMT
Pneumatic suspension (Left)	AR00000176127	2401022		TMT
Brake unit with PB (Right rear)	AR00000174544	1794	05-24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5403	05-24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5401	05-24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5404	05-24	Wabtec

PRESSING REPORT

DATE 5/23/2024	RESPONSABLE VALIDATION	PRASA ALSTOM INSTRUCTION SHEET:	LOAD TEST : TBEXT
DATE VALIDATION		FAMILY:	PROJECT:

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	36.10 39.00
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	5438

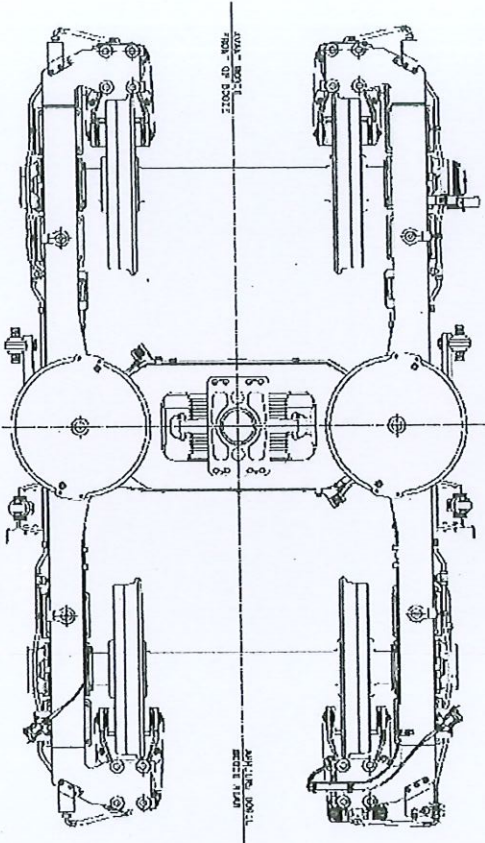
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
585.43	+	5.00	= 590.43
			MIN MAX
			590.00 592.50

RIGHT JACK LOAD
8453 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	36.20 39.00
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	5491

BOGIE SERIAL N°	615
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21907
COMPLETE BOGIE WEIGHT [Kg]	4667
OPERATOR	DATE
BAFANA	5/23/2024

OPERATOR STAMP
DC-2-1-5



LEFT JACK LOAD
8452 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	35.70 39.00
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5535

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
585.79	+	5.00	= 590.79
			MIN MAX
			590.00 592.50

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	35.80 39.00
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5442

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN MAX	0.00 0.88
LOAD DIFFERENCE ON REAR AXLE [%]	MIN MAX	0.00 -0.45
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN MAX	0.00 0.18
LOAD DIFFERENCE ON RAILS [%]	MIN MAX	0.00 0.22
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN MAX	0.00 -0.67

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

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE TBINT**

DTR0009706802

SERIAL NUMBER **TBINT 618**

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	21 May 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	618		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	1895		Alstom - Ubunye
Wheelset (Front)	AR000000177020	101659		Alstom - Ubunye
Axle	AR00000174678	101504	D1230044	Jinxi
Wheel (Right)	AR00000174670	145	10-23	Bonatrans
Wheel (Left)	AR000000174670	144	10-23	Bonatrans
Wheelset (Rear)	AR00000185203	101660		Alstom Ubunye
Axle	AR00000174678	101457	D1230044	Jinxi
Wheel (Right)	AR00000174670	071	10-23	Bonatrans
Wheel (Left)	AR00000174670	068	10-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2312031		TMT
Pneumatic suspension (Left)	AR00000176127	2312026		TMT
Brake unit with PB (Right rear)	AR00000174544	1788	05-24	WABTEC
Brake unit without PB (Right front)	AR00000175185	5386	05-24	WABTEC
Brake unit without PB (Left Front)	AR00000175185	5385	05-24	WABTEC
Brake unit without PB (left rear)	AR00000175185	5384	05-24	WABTEC

PRESSING REPORT

DATE 5/21/2024	RESPONSIBLE VALIDATION
DATE VALIDATION	

PRASA	LOAD TEST : TBINT
INSTRUCTION SHEET:	PROJECT: PRASA
FAMILY:	

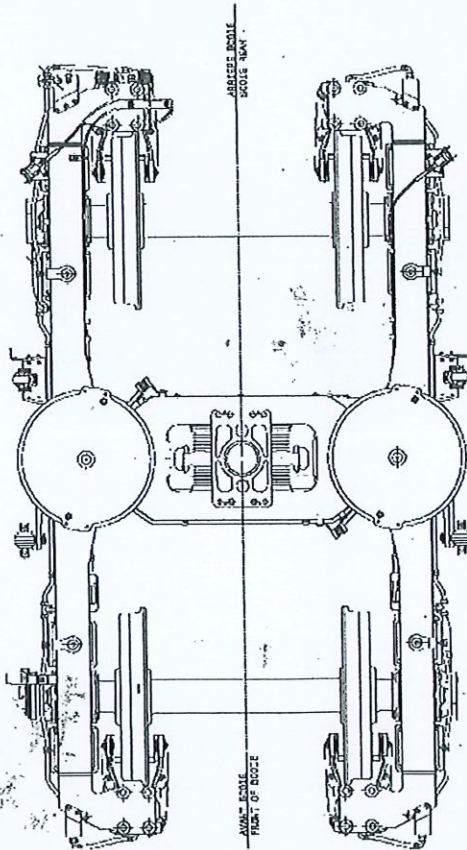
THEORETICAL		MEASURED
WHEEL DIAMETER [mm]	MIN	
	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	38.70 ✓
	MAX	
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]		4644

SECONDARY SUSPENSION				✓
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]	THEORETICAL [mm]	
588.46	+	0.00	=	588.46
				MIN 587.50
				MAX 590.00

RIGHT JACK LOAD	Kg
6695	

BOGIE SERIAL N°	618
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	48336
COMPLETE BOGIE WEIGHT [Kg]	4601
OPERATOR	BAFANA
DATE	5/21/2024

OPERATOR STAMP
DC-BFI-6



LEFT JACK LOAD	Kg
6695	

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.45	+	0.00	MIN 587.50
			MAX 590.00

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

THEORETICAL		MEASURED
WHEEL DIAMETER [mm]	MIN	
	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	38.89 ✓
	MAX	
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]		4593

THEORETICAL		MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN	0.37 ✓
	MAX	
LOAD DIFFERENCE ON REAR AXLE [%]	MIN	-1.12 ✓
	MAX	
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN	-0.18 ✓
	MAX	
LOAD DIFFERENCE ON RAILS [%]	MIN	-0.38 ✓
	MAX	
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN	-0.75 ✓
	MAX	

THEORETICAL		MEASURED
WHEEL DIAMETER [mm]	MIN	
	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	38.10 ✓
	MAX	
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]		4541