

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

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE type TBEXT**

DTR0009706803

SERIAL NUMBER **TBEXT - 612**

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"/>

COMPLIANCE CERTIFICATE

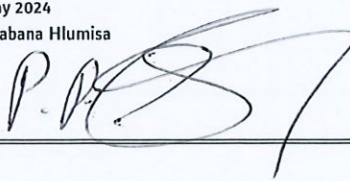
We hereby declare, barring exceptions, reservations, or exemptions listed in this statement of conformity, that the listed supplies comply with the contract requirements and that, after completions of testing and verification, they completely satisfy all specified requirements and applicable standards and regulations.

CONSTRUCTOR APPROVAL

DATE **17 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	612		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	893		Alstom - Ubunye
Wheelset (Front)	AR000000177020	1653		Alstom - Ubunye
Axle	AR00000174678	108019	01232169	Jinxi
Wheel (Right)	AR00000174670	142	10.23	Bonatrans
Wheel (Left)	AR000000174670	138	10.23	Bonatrans
Wheelset (Rear)	AR00000185203	1654		Alstom - Ubunye
Axle	AR00000174678	108054	01232169	Jinxi
Wheel (Right)	AR00000174670	117	07.23	Bonatrans
Wheel (Left)	AR00000174670	119	07.23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2401039		TMT
Pneumatic suspension (Left)	AR00000176127	2312144		TMT
Brake unit with PB (Right rear)	AR00000174544	1722	05.24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5348	05.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5349	05.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5338	05.24	Wabtec

PRESSING REPORT

DATE 5/16/2024	RESPONSABLE VALIDATION	PRASA	LOAD TEST : TBEXT
DATE VALIDATION		INSTRUCTION SHEET:	PROJECT:
		FAMILY:	

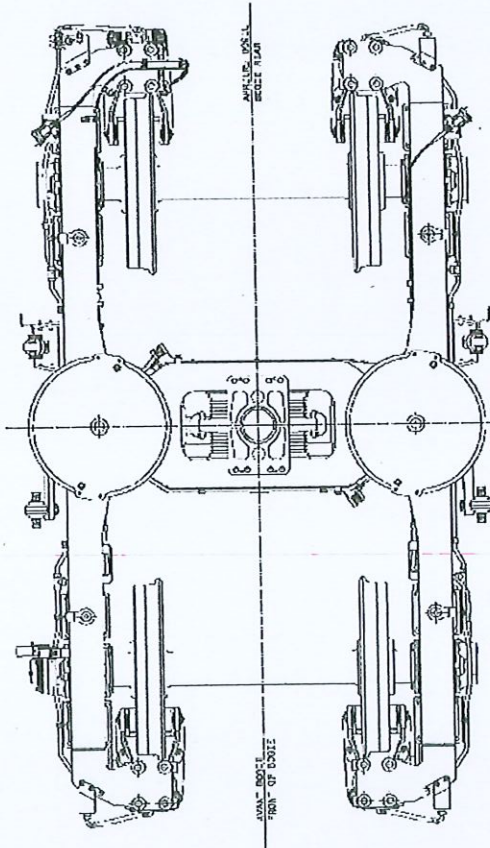
	SECONDARY SUSPENSION		THEORETICAL	MEASURED
	MEASURED [mm]	DIM. WITH SHIM [mm]		
WHEEL DIAMETER [mm]			MIN MAX	
GAP PRIMARY SUSPENSION [mm]			MIN MAX	38.55
SHIM THICK [mm]				
WEIGHT ON WHEEL [Kg]			Q4	5504

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.36	+	4.00 =	MIN 590.00 MAX 592.50

RIGHT JACK LOAD
8453 Kg

BOGIE SERIAL N°	612
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21912
COMPLETE BOGIE WEIGHT [Kg]	4665
OPERATOR	EDWARD
DATE	5/16/2024

OPERATOR STAMP
BFI-21



LEFT JACK LOAD
8453 Kg

	SECONDARY SUSPENSION		THEORETICAL	MEASURED
	MEASURED [mm]	DIM. WITH SHIM [mm]		
WHEEL DIAMETER [mm]			MIN MAX	
GAP PRIMARY SUSPENSION [mm]			MIN MAX	37.93
SHIM THICK [mm]				
WEIGHT ON WHEEL [Kg]			Q1	5535

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.19	+	4.00 =	MIN 590.00 MAX 592.50

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

	SECONDARY SUSPENSION		THEORETICAL	MEASURED
	MEASURED [mm]	DIM. WITH SHIM [mm]		
WHEEL DIAMETER [mm]			MIN MAX	
GAP PRIMARY SUSPENSION [mm]			MIN MAX	37.50
SHIM THICK [mm]				
WEIGHT ON WHEEL [Kg]			Q3	5438

	SECONDARY SUSPENSION		THEORETICAL	MEASURED
	MEASURED [mm]	DIM. WITH SHIM [mm]		
WHEEL DIAMETER [mm]			MIN MAX	
GAP PRIMARY SUSPENSION [mm]			MIN MAX	37.50
SHIM THICK [mm]				
WEIGHT ON WHEEL [Kg]			Q3	5438

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 620**

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	22 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	620		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	7891		Alstom - Ubunye
Wheelset (Front)	AR000000177020	701655		Alstom - Ubunye
Axle	AR00000174678	101441	D1230044	Jinxi
Wheel (Right)	AR00000174670	133	07-23	Bonatrans
Wheel (Left)	AR000000174670	134	07-23	Bonatrans
Wheelset (Rear)	AR00000185203	701656		Alstom Ubunye
Axle	AR00000174678	102144	D1230038	Jinxi
Wheel (Right)	AR00000174670	029	10-23	Bonatrans
Wheel (Left)	AR00000174670	030	10-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2312050		TMT
Pneumatic suspension (Left)	AR00000176127	2312053		TMT
Brake unit with PB (Right rear)	AR00000174544	1700	05-24	WABTEC
Brake unit without PB (Right front)	AR00000175185	5319	05-24	WABTEC
Brake unit without PB (Left Front)	AR00000175185	5322	05-24	WABTEC
Brake unit without PB (left rear)	AR00000175185	5321	05-24	WABTEC

PRESSING REPORT

DATE 5/21/2024	RESPONSABLE VALIDATION	PRASA	LOAD TEST : TBINT
DATE VALIDATION		INSTRUCTION SHEET:	PROJECT: PRASA
		FAMILY:	

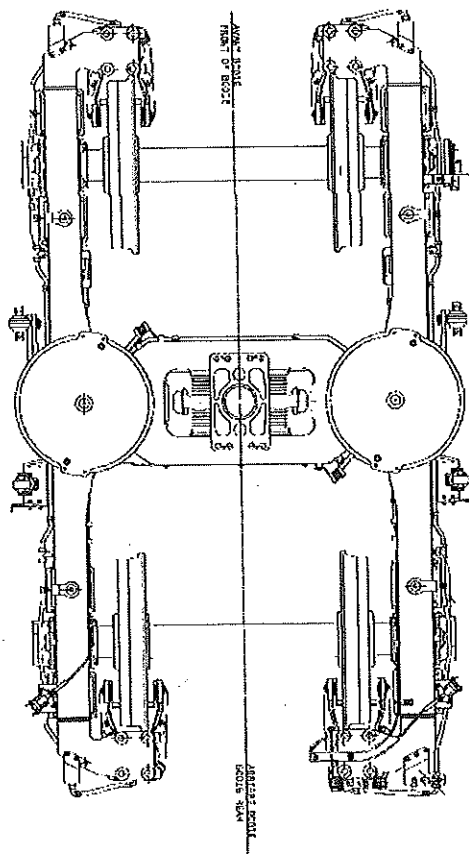
	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	39.96 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	4489

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.79	+	0.00	= 589.79 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	39.40 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	4656

BOGIE SERIAL N°	620
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18321
COMPLETE BOGIE WEIGHT [Kg]	4601
OPERATOR	EDWARD
DATE	5/21/2024



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN -2.00 MAX 2.00	1.69 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00 MAX 2.00	-1.35 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.31 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00 MAX 2.00	0.16 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00 MAX 2.00	-1.52 ✓

OPERATOR STAMP
BF1-21

LEFT JACK LOAD
6695 Kg

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.95	+	0.00	= 588.95 MIN 587.50 MAX 590.00

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	0.84	THEORETICAL [mm]
		MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	40.00 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	4643

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	39.21 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	4532