

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 - 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"/>
- Load test report.....	1 page	<input checked="" type="checkbox"/>

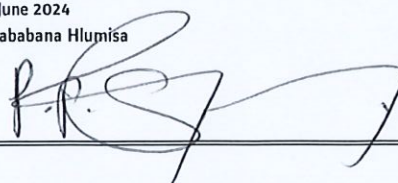
COMPLIANCE CERTIFICATE

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
NAME
VISA

29 June 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 TBEXT	DTR0009706803	629		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	935		Alstom - Ubunye
Wheelset (Front)	AR000000177020	1722		Alstom - Ubunye
Axle	AR00000174678	105190	1230031	Jinxi
Wheel (Right)	AR00000174670	102	03.24	Bonatrans
Wheel (Left)	AR000000174670	076	03.24	Bonatrans
Wheelset (Rear)	AR00000185203	1721		Alstom - Ubunye
Axle	AR00000174678	101480	1230044	Jinxi
Wheel (Right)	AR00000174670	072	11.23	Bonatrans
Wheel (Left)	AR00000174670	066	11.23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2401006		TMT
Pneumatic suspension (Left)	AR00000176127	2401001		TMT
Brake unit with PB (Right rear)	AR00000174544	1811	05.24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5456	05.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5457	05.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5458	05.24	Wabtec

PRESSING REPORT

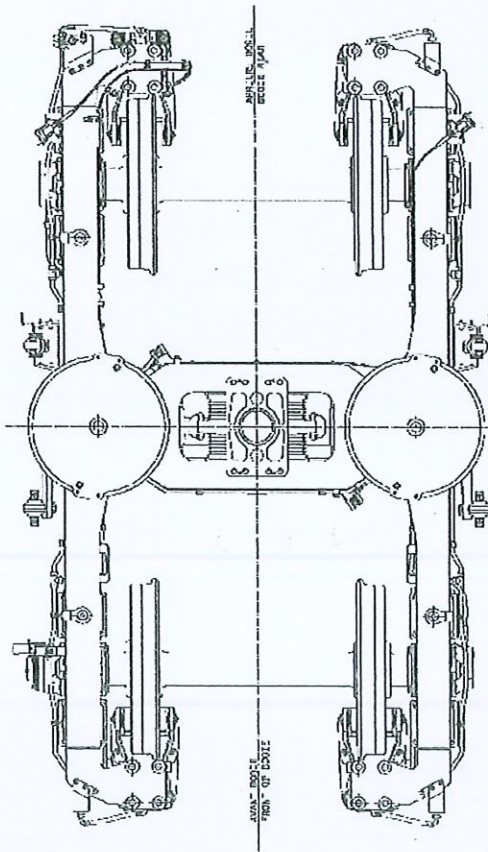
6/28/2024		PRASA		LOAD TEST : TBEXT	
DATE VALIDATION		RESPONSABLE VALIDATION		INSTRUCTION SHEET:	
				PROJECT:	

	WHEEL DIAMETER [mm]	THEORETICAL	MEASURED
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 39.00	35.80
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q4	5522

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
584.39	+	6.00	=
		590.39	MIN MAX
			590.00 592.50

RIGHT JACK LOAD
8453 Kg

BOGIE SERIAL N°	629
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21915
COMPLETE BOGIE WEIGHT [Kg]	4663
OPERATOR	BAFANA
DATE	6/28/2024



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN MAX	0.00 1.91
LOAD DIFFERENCE ON REAR AXLE [%]	MIN MAX	0.00 -0.86
LOAD DIFFERENCE ON RAILS [%]	MIN MAX	0.00 0.07
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN MAX	0.00 -1.38

OPERATOR STAMP
DC-B7I-6

LEFT JACK LOAD
8453 Kg

	WHEEL DIAMETER [mm]	THEORETICAL	MEASURED
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 39.00	35.10
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q3	5428

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
583.93	+	7.00	=
		590.93	MIN MAX
			590.00 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	
-0.54	
THEORETICAL [mm]	MIN MAX
	-1.00 1.00

	WHEEL DIAMETER [mm]	THEORETICAL	MEASURED
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 39.00	35.50
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q1	5587

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CUSTOMER Gibela

CONTRACT

PROJECT PRASA

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE TRAILER BOGIE type TBINT

DTR0009706802

SERIAL NUMBER TBINT - 634

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	29 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 TBINT	DTR0009706802	634		Alstom - Ubunye
Trailer Bogie Frame	AR000000176083	T0 923		Poland -MZ
Wheelset (Front)	AR0000000177020	T0 1717		Alstom - Ubunye
Axle	AR000000174678	105191	1230031	Jinxi
Wheel (Right)	AR000000174670	028	03.24	Bonatrans
Wheel (Left)	AR0000000174670	029	03.24	Bonatrans
Wheelset (Rear)	AR000000185203	T0 1718		Alstom - Ubunye
Axle	AR000000174678	101474	1230044	Jinxi
Wheel (Right)	AR000000174670	036	03.24	Bonatrans
Wheel (Left)	AR000000174670	040	03.24	Bonatrans
Pneumatic suspension (Right)	AR000000176127	2403050		TMT
Pneumatic suspension (Left)	AR000000176127	2403046		TMT
Brake unit with PB (Right rear)	AR000000174544	1850	06.24	Wabtec
Brake unit without PB (Right front)	AR000000175185	5559	06.24	Wabtec
Brake unit without PB (Left Front)	AR000000175185	5564	06.24	Wabtec
Brake unit without PB (left rear)	AR000000175185	5565	06.24	Wabtec

DATE
6/27/2024

RESPONSABLE VALIDATION

PRASA

INSTRUCTION SHEET:

FAMILY:

LOAD TEST: TBINT

PROJECT: PRASA

PRESSING REPORT

	THEORETICAL			MEASURED		
	MIN	MAX		MIN	MAX	
WHEEL DIAMETER [mm]						
GAP PRIMARY SUSPENSION [mm]	34.50	40.50		34.50	40.50	37.00
SHIM THICK [mm]						
WEIGHT ON WHEEL [kg]			Q2			4636

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
587.62	+	1.00	=
		588.62	MIN
			MAX
			590.00

RIGHT JACK LOAD
6695 kg

BOGIE SERIAL N°

634

BOGIE TYPE

TBINT

BOGIE WEIGHT UNDER LOAD [kg]

18370

COMPLETE BOGIE WEIGHT [kg]

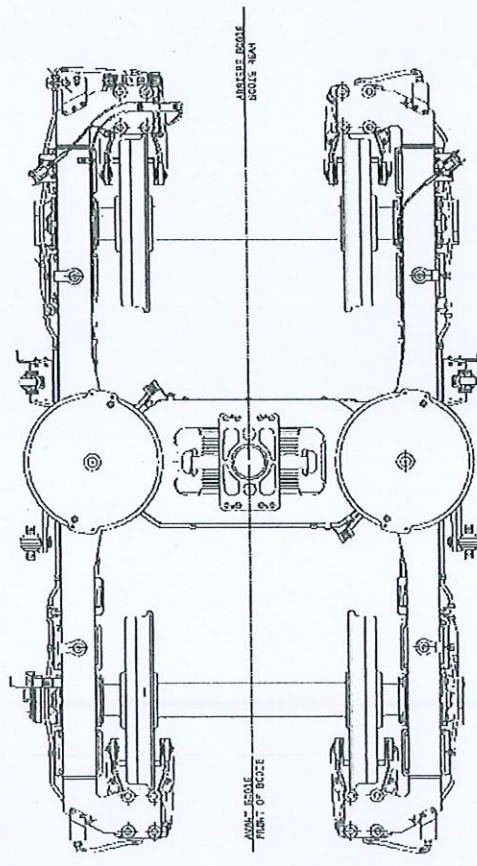
4632

OPERATOR

EDWARD

DATE

6/27/2024



THEORETICAL		MEASURED	
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN	-2.00	1.80
	MAX	2.00	
LOAD DIFFERENCE ON REAR AXLE [%]	MIN	-2.00	-0.65
	MAX	2.00	
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN	-2.00	-0.29
	MAX	2.00	
LOAD DIFFERENCE ON RAILS [%]	MIN	-2.00	0.57
	MAX	2.00	
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN	-2.00	-1.22
	MAX	2.00	

OPERATOR STAMP

BFI-21

LEFT JACK LOAD
6695 kg

	THEORETICAL			MEASURED		
	MIN	MAX		MIN	MAX	
WHEEL DIAMETER [mm]						
GAP PRIMARY SUSPENSION [mm]	34.50	40.50		34.50	40.50	36.41
SHIM THICK [mm]						
WEIGHT ON WHEEL [kg]			Q3			4576

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.03	+	0.00	=
		589.03	MIN
			MAX
			590.00

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]		
		-0.41
		MIN
		MAX
		1.00