

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 - 586

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- 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

14 March 2024
Kwababana-Hlunisa



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	DTR00009706803	586		Alstom - Abunye
Trailer Bogie Frame	AR000000176083	T0841		Alstom - Ubunye
Wheelset (Front)	AR0000000177020	T01551		Alstom - Ubunye
Axle	AR000000174678	114525	12176733	Jinxi
Wheel (Right)	AR000000174670	078	04-23	Bonatrans
Wheel (Left)	AR0000000174670	134	04-23	Bonatrans
Wheelset (Rear)	AR000000185203	T01550		Alstom Ubunye
Axle	AR000000174678	114884	12176732	Jinxi
Wheel (Right)	AR000000174670	107	04-23	Bonatrans
Wheel (Left)	AR000000174670	140	04-23	Bonatrans
Pneumatic suspension (Right)	AR000000176127	2312102		TMT
Pneumatic suspension (Left)	AR000000176127	2401044		TMT
Brake unit with PB (Right rear)	AR000000174544	1613	02-24	Wabtec
Brake unit without PB (Right front)	AR000000175185	4870	02-24	Wabtec
Brake unit without PB (Left Front)	AR000000175185	5867	02-24	Wabtec
Brake unit without PB (left rear)	AR000000175185	4879	02-24	Wabtec

PRESSING REPORT

DATE 2/28/2024		PRESSING REPORT	
DATE VALIDATION	RESPONSABLE VALIDATION		
		PRASA	
		INSTRUCTION SHEET:	LOAD TEST : TBEXT
		FAMILY:	PROJECT:

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.42 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	5481

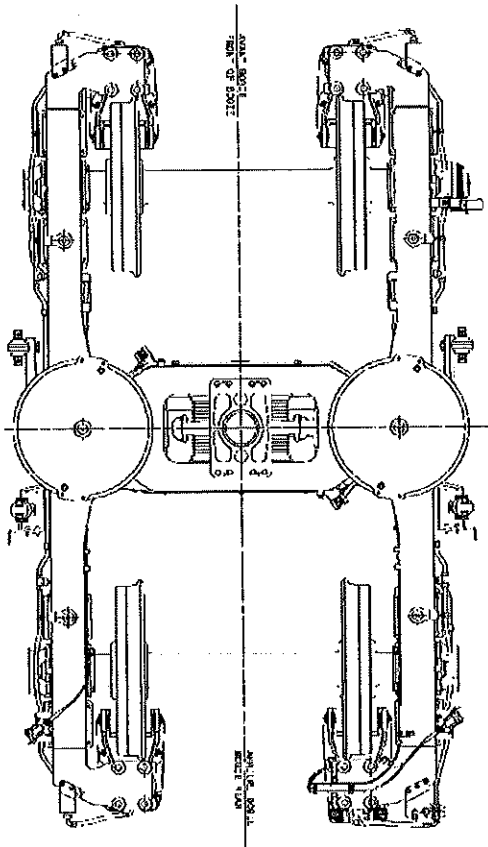
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.78	+	4.00 =	590.78 MIN 590.00 MAX 592.50

RIGHT JACK LOAD
8453 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.98 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	5419

BOGIE SERIAL N°	586
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21900
COMPLETE BOGIE WEIGHT [Kg]	4646
OPERATOR	DATE
EDWARD	2/28/2024

OPERATOR STAMP
BFI-21



LEFT JACK LOAD
8453 Kg

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.02	+	2.00 =	590.02 MIN 590.00 MAX 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	0.76	THEORETICAL [mm]
		MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN 0.00 MAX 0.00	0.02 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN 0.00 MAX 0.00	0.90 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN 0.00 MAX 0.00	0.13 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN 0.00 MAX 0.00	0.46 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN 0.00 MAX 0.00	0.44 ✓

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.69 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5483

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.30 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5517

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

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE type TBINT**

DTR0009706802

SERIAL NUMBER **TBINT - 593**

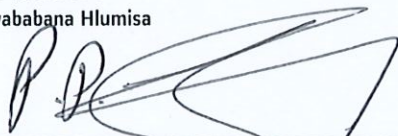
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CONSTRUCTOR APPROVAL

DATE	07 March 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	593		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	T0846		Poland -MZ
Wheelset (Front)	AR000000177020	T01553		Alstom - Ubunye
Axle	AR00000174678	1144499	12176733	Jinxi
Wheel (Right)	AR00000174670	119	04-23	Bonatrans
Wheel (Left)	AR000000174670	120	04-24	Bonatrans
Wheelset (Rear)	AR00000185203	T01554		Alstom - Ubunye
Axle	AR00000174678	114460	12176733	Jinxi
Wheel (Right)	AR00000174670	157	97-23.	Bonatrans
Wheel (Left)	AR00000174670	125	04-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2309014		TMT
Pneumatic suspension (Left)	AR00000176127	2309084		TMT
Brake unit with PB (Right rear)	AR00000174544	1626	02-24	Wabtec
Brake unit without PB (Right front)	AR00000175185	4897	02-24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	4899	02-24	Wabtec
Brake unit without PB (left rear)	AR00000175185	4898	02-24	Wabtec

PRESSING REPORT

DATE 3/5/2024	RESPONSABLE VALIDATION		PRASA INSTRUCTION SHEET:		LOAD TEST : TBINT
DATE VALIDATION		FAMILY:		PROJECT: PRASA	

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	4593

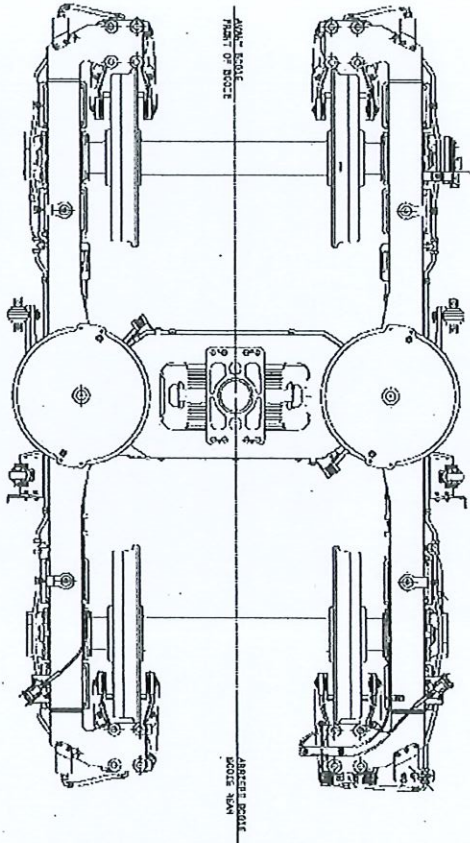
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.17	+	1.00	= 589.17
			MIN MAX
			587.50 590.00

RIGHT JACK LOAD
6695 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	4643

BOGIE SERIAL N°	593
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18343
COMPLETE BOGIE WEIGHT [Kg]	4613
OPERATOR	DATE
EDWARD	3/5/2024

OPERATOR STAMP
DC-BFI-6



LEFT JACK LOAD
6695 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	4564

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.24	+	0.00	= 589.24
			MIN MAX
			587.50 590.00

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	THEORETICAL [mm]
-0.07	MIN MAX
	-1.00 1.00

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

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	4543