

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 - 608

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"/>

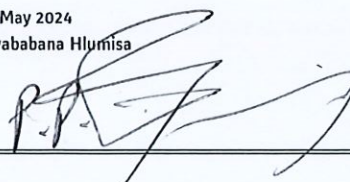
COMPLIANCE CERTIFICATE

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

07 May 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	608		Alstom - Abunye
Trailer Bogie Frame	AR000000176083	T0 884		Alstom - Ubunye
Wheelset (Front)	AR0000000177020	T0 1637		Alstom - Ubunye
Axle	AR000000174678	102142	1230038	Jinxi
Wheel (Right)	AR000000174670	042	11.23	Bonatrans
Wheel (Left)	AR0000000174670	052	11.23	Bonatrans
Wheelset (Rear)	AR000000185203	T0 1638		Alstom Ubunye
Axle	AR000000174678	101551	1230018	Jinxi
Wheel (Right)	AR000000174670	049	11.23	Bonatrans
Wheel (Left)	AR000000174670	051	11.23	Bonatrans
Pneumatic suspension (Right)	AR000000176127	2311101		TMT
Pneumatic suspension (Left)	AR000000176127	2311108		TMT
Brake unit with PB (Right rear)	AR000000174544	1752	04.24	Wabtec
Brake unit without PB (Right front)	AR000000175185	5277	04.24	Wabtec
Brake unit without PB (Left Front)	AR000000175185	5278	04.24	Wabtec
Brake unit without PB (left rear)	AR000000175185	5276	04.24	Wabtec

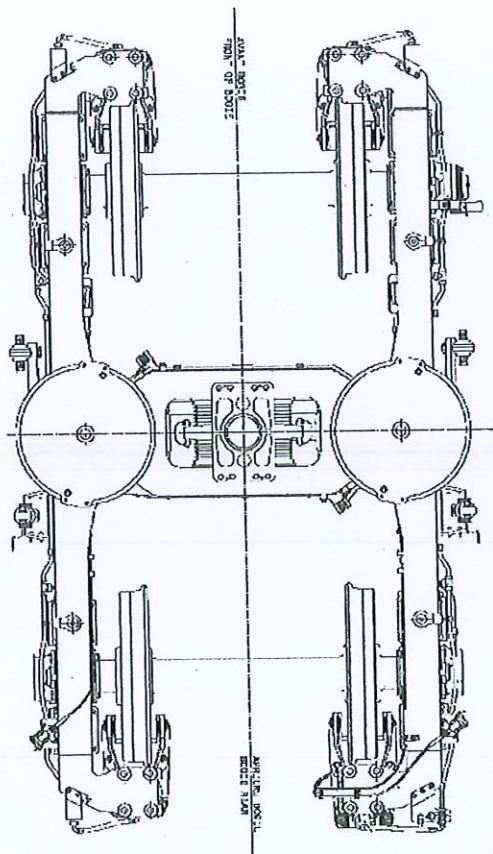
	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.23 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	5393

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]	THEORETICAL [mm]
589.55	+	1.00 =	590.55 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	36.92 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	5555

BOGIE SERIAL N°	608
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21931
COMPLETE BOGIE WEIGHT [Kg]	4673
OPERATOR	EDWARD
DATE	5/6/2024



OPERATOR STAMP
BFI-21

LEFT JACK LOAD
8453 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.09 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5585

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
590.69	+	0.00 =	590.69 MIN 590.00 MAX 592.50
DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			✓
-0.14			MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN 0.00 MAX 0.00	1.75 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN 0.00 MAX 0.00	-1.42 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN 0.00 MAX 0.00	0.11 ✓
LOAD DIFFERENCE ON RAUS [%]	MIN 0.00 MAX 0.00	0.16 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN 0.00 MAX 0.00	-1.59 ✓

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	36.85 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5399

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

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE TBINT**

DTR0009706802

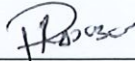
SERIAL NUMBER **TBINT 614**

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"/>

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CONSTRUCTOR APPROVAL	
DATE	07 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	614		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	T0 887		Poland -MZ
Wheelset (Front)	AR000000177020	T0 1639		Alstom - Ubunye
Axle	AR00000174678	114946	12176732	Jinxi
Wheel (Right)	AR00000174670	030	12-23	Bonatrans
Wheel (Left)	AR000000174670	026	12-23	Bonatrans
Wheelset (Rear)	AR00000185203	T0 1640		Alstom - Ubunye
Axle	AR00000174678	114916	12176732	Jinxi
Wheel (Right)	AR00000174670	014	12-23	Bonatrans
Wheel (Left)	AR00000174670	025	12-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	231113		TMT
Pneumatic suspension (Left)	AR00000176127	231110		TMT
Brake unit with PB (Right rear)	AR00000174544	1751	04-24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5274	04-24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5272	04-24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5271	04-24	Wabtec

PRESSING REPORT

DATE
5/7/2024

DATE VALIDATION

RESPONSABLE VALIDATION

PRASA
INSTRUCTION SHEET:
FAMILY:

FAMILY:

LOAD TEST : TRINT

PROJECT: PRASA

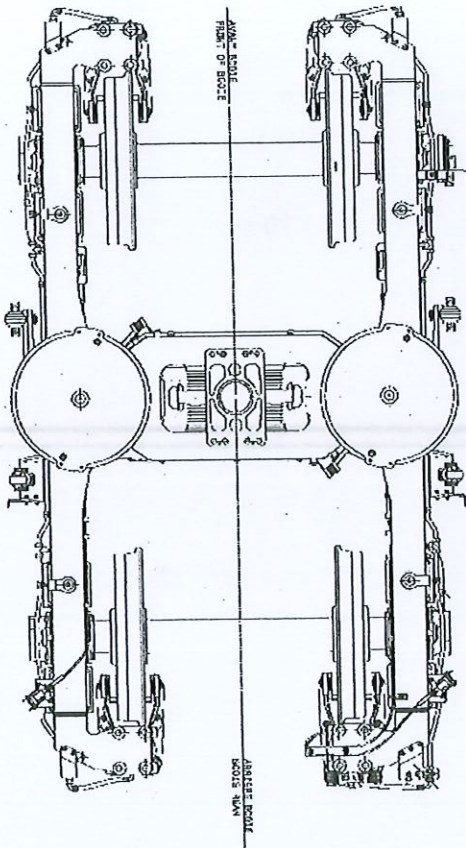
	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	37.47 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	4549

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.26	+	2.00	= 588.26
			MIN 587.50 MAX 590.00

RIGHT JACK LOAD
6695 Kg

	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	37.87 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	4571

BOGIE SERIAL N°	614
BOGIE TYPE	TRINT
BOGIE WEIGHT UNDER LOAD [Kg]	18345
COMPLETE BOGIE WEIGHT [Kg]	4613
OPERATOR	DATE
EDWARD	5/7/2024



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN -2.00 MAX 2.00	0.49 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00 MAX 2.00	0.64 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.32 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00 MAX 2.00	0.57 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00 MAX 2.00	0.08 ✓

OPERATOR STAMP
BFI-21

LEFT JACK LOAD
6695 Kg

	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	36.93 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	4594

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
587.94	+	0.00	= 587.94
			MIN 587.50 MAX 590.00
DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			
0.32			
		MIN -1.00 MAX 1.00	

	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	36.51 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	4630