

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 - 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"/>

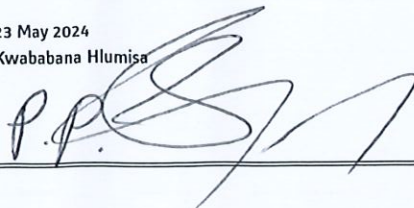
COMPLIANCE CERTIFICATE

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

23 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	614		Alstom - Ubunye
Trailer Bogie Frame	AR000000176083	894		Alstom - Ubunye
Wheelset (Front)	AR0000000177020	1663		Alstom - Ubunye
Axle	AR000000174678	102167	1230038	Jinxi
Wheel (Right)	AR000000174670	158	07.23	Bonatrans
Wheel (Left)	AR0000000174670	160	07.23	Bonatrans
Wheelset (Rear)	AR000000185203	1664		Alstom - Ubunye
Axle	AR000000174678	102090	1230038	Jinxi
Wheel (Right)	AR000000174670	003	07.23	Bonatrans
Wheel (Left)	AR000000174670	017	07.23	Bonatrans
Pneumatic suspension (Right)	AR000000176127	2312118		TMT
Pneumatic suspension (Left)	AR000000176127	2312119		TMT
Brake unit with PB (Right rear)	AR000000174544	1790	05.24	Wabtec
Brake unit without PB (Right front)	AR000000175185	5418	05.24	Wabtec
Brake unit without PB (Left Front)	AR000000175185	5391	05.24	Wabtec
Brake unit without PB (left rear)	AR000000175185	5389	05.24	Wabtec

QC: 018
Revision: 1.0

PRESSING REPORT

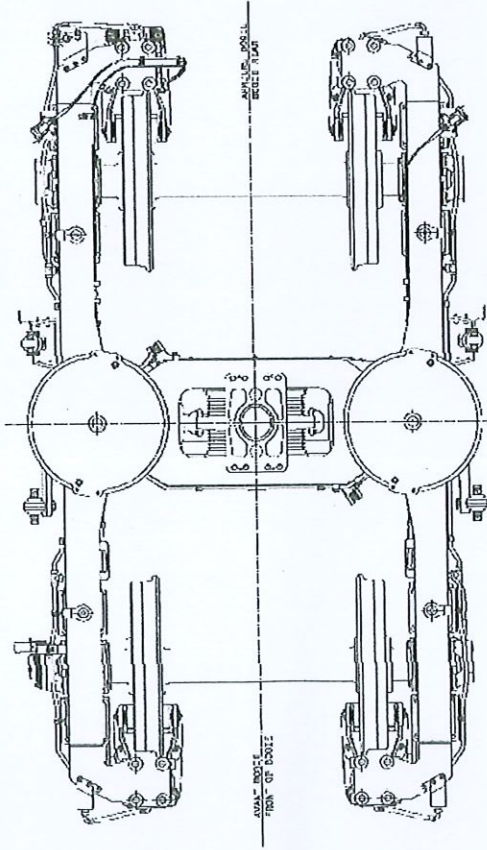
DATE 5/22/2024	PRASA	LOAD TEST : TBEXT
DATE VALIDATION	INSTRUCTION SHEET:	PROJECT:
RESPONSABLE VALIDATION		
FAMILY:		

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00		38.38
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q4	5462

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

RIGHT JACK LOAD	
	8453 Kg

BOGIE SERIAL N°	614
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21908
COMPLETE BOGIE WEIGHT [Kg]	4653
OPERATOR	BAFANA
DATE	5/22/2024



LEFT JACK LOAD	
	8453 Kg

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00		37.91
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q1	5509

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.49	+	2.00	MIN 590.49 MAX 592.50
DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			
		-0.06	MIN -1.00 MAX 1.00

LOAD DIFFERENCE ON FRONT AXLE [%]	THEORETICAL		MEASURED
	MIN	MAX	
LOAD DIFFERENCE ON REAR AXLE [%]	MIN 0.00 MAX 0.00		0.45
LOAD DIFFERENCE ON FRONT AXLE AND REAR AXLE [%]	MIN 0.00 MAX 0.00		0.15
LOAD DIFFERENCE ON RAILS [%]	MIN 0.00 MAX 0.00		0.13
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN 0.00 MAX 0.00		0.30
	MIN 0.00 MAX 0.00		-0.15

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00		37.40
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q3	5478

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

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE TBINT**

DTR0009706802

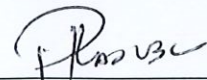
SERIAL NUMBER **TBINT 621**

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 TBINT	DTR0009706802	621		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	7900		Alstom - Ubunye
Wheelset (Front)	AR000000177020	701667		Alstom - Ubunye
Axle	AR00000174678	102103	D1230038	Jinxi
Wheel (Right)	AR00000174670	106	07-23	Bonatrans
Wheel (Left)	AR000000174670	026	07-23	Bonatrans
Wheelset (Rear)	AR00000185203	701668		Alstom Ubunye
Axle	AR00000174678	108040	D123169	Jinxi
Wheel (Right)	AR00000174670	084	10-23	Bonatrans
Wheel (Left)	AR00000174670	141	10-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2312121		TMT
Pneumatic suspension (Left)	AR00000176127	2311122		TMT
Brake unit with PB (Right rear)	AR00000174544	1797	05-24	WABTEC
Brake unit without PB (Right front)	AR00000175185	5414	05-24	WABTEC
Brake unit without PB (Left Front)	AR00000175185	5417	05-24	WABTEC
Brake unit without PB (left rear)	AR00000175185	5378	05-24	WABTEC

PRESSING REPORT

DATE 5/23/2024	RESPONSABLE VALIDATION	PRASA ALSTOM 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	4543

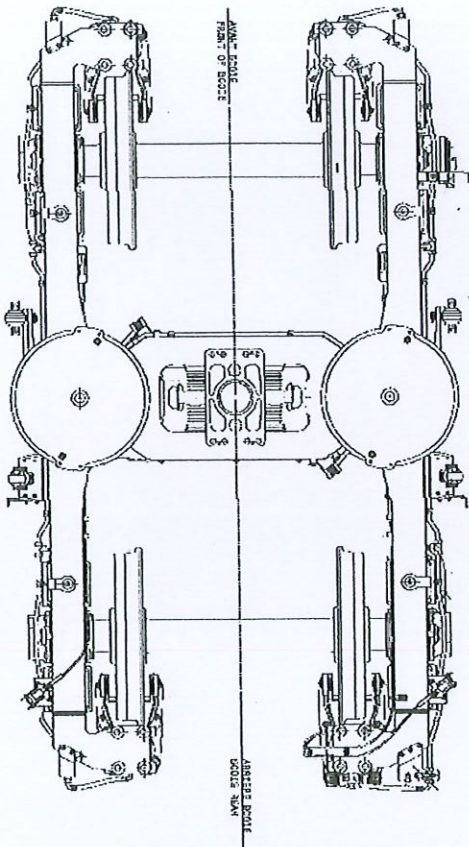
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
587.80	+	0.00	= 587.80
			MIN MAX
			587.50 590.00

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	4615

BOGIE SERIAL N°	621
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18350
COMPLETE BOGIE WEIGHT [Kg]	4614
OPERATOR	DATE
BAFANA	5/23/2024

OPERATOR STAMP
DC-371-6



LEFT JACK LOAD
6696 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	4615

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.34	+	0.00	= 588.34
			MIN MAX
			587.50 590.00
DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			THEORETICAL [mm]
-0.54			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	4576