

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 - 583

CONTENTS

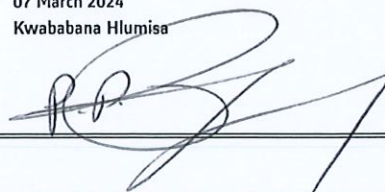
- Compliance certificate.....	Page 1/2	<input checked="" type="checkbox"/>
- List of deviations and missing parts.....	Page 2/2	<input checked="" type="checkbox"/>
- Products traceability.....	1 page	<input checked="" type="checkbox"/>
- Load test report.....	1 page	<input checked="" type="checkbox"/>

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 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 TBEXT	DTR0009706803	583		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T0839		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T01555		Alstom - Ubunye
Axle	AR00000174678	1141882	12176733	Jinxi
Wheel (Right)	AR00000174670	088	04-23	Bonatrans
Wheel (Left)	AR000000174670	089	04-23	Bonatrans
Wheelset (Rear)	AR00000185203	T01556		Alstom Ubunye
Axle	AR00000174678	114566	12176733	Jinxi
Wheel (Right)	AR00000174670	121	07-23	Bonatrans
Wheel (Left)	AR00000174670	098	04-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2308026		TMT
Pneumatic suspension (Left)	AR00000176127	2307069		TMT
Brake unit with PB (Right rear)	AR00000174544	1629	02-24	Wabtec
Brake unit without PB (Right front)	AR00000175185	4907	02-24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	4908	02-24	Wabtec
Brake unit without PB (left rear)	AR00000175185	4914	02-24	Wabtec

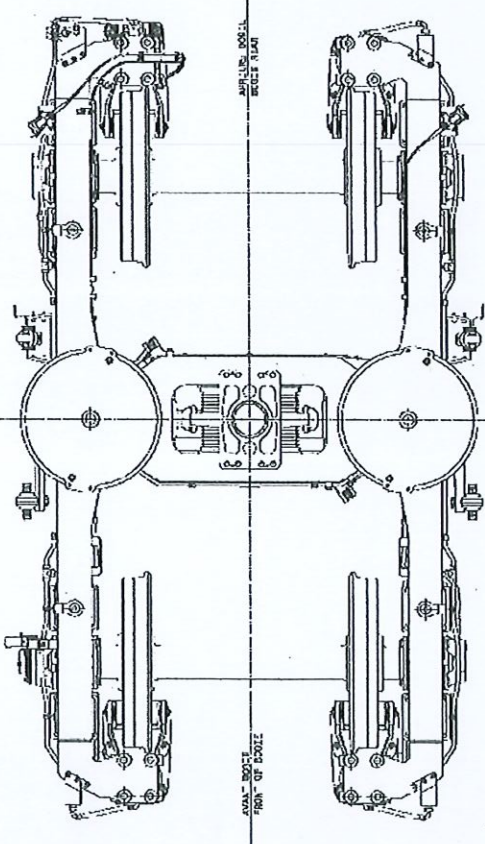
DATE 3/5/2024		RESPONSABLE VALIDATION		PRASA		LOAD TEST : TBEXT	
DATE VALIDATION				INSTRUCTION SHEET:		PROJECT:	
				FAMILY:			

WHEEL DIAMETER [mm]	MIN MAX	THEORETICAL	MIN MAX	MEASURED
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 39.00		36.29 ✓
SHIM THICK [mm]				
WEIGHT ON WHEEL [Kg]		Q2		5423

MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
585.73	+	5.00	590.00 592.50
			MIN MAX

RIGHT JACK LOAD

8453	Kg
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BOGIE SERIAL N°	583
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21896
COMPLETE BOGIE WEIGHT [Kg]	4712
OPERATOR	EDWARD
DATE	3/5/2024

OPERATOR STAMP

BFI-21

WHEEL DIAMETER [mm]	MIN MAX	THEORETICAL	MIN MAX	MEASURED
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 39.00		36.74 ✓
SHIM THICK [mm]				
WEIGHT ON WHEEL [Kg]		Q1		5546

MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.10	+	4.00	590.10 592.50
			MIN MAX

LEFT JACK LOAD

8453	Kg
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WHEEL DIAMETER [mm]	MIN MAX	THEORETICAL	MIN MAX	MEASURED
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 39.00		36.65 ✓
SHIM THICK [mm]				
WEIGHT ON WHEEL [Kg]		Q3		5461

MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.10	+	4.00	590.10 592.50
			MIN MAX

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]

0.63	MIN MAX	-1.00 1.00
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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 595**


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

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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	595		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T844		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T01563		Alstom - Ubunye
Axle	AR00000174678	105201	D1230031	Jinxi
Wheel (Right)	AR00000174670	140	10-23	Bonatrans
Wheel (Left)	AR000000174670	017	10-23	Bonatrans
Wheelset (Rear)	AR00000185203	T01564		Alstom Ubunye
Axle	AR00000174678	108030	D1232169	Jinxi
Wheel (Right)	AR00000174670	005	10-23	Bonatrans
Wheel (Left)	AR00000174670	005	10-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2312103		TMT
Pneumatic suspension (Left)	AR00000176127	2312168		TMT
Brake unit with PB (Right rear)	AR00000174544	1639	02-24	WABTEC
Brake unit without PB (Right front)	AR00000175185	4943	02-24	WABTEC
Brake unit without PB (Left Front)	AR00000175185	4944	02=24	WABTEC
Brake unit without PB (left rear)	AR00000175185	4942	02-24	WABTEC

DATE
3/6/2024

RESPONSABLE VALIDATION

PRASA

INSTRUCTION SHEET:

FAMILY:

LOAD TEST : TBINT

PROJECT: PRASA

PRESSING REPORT

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	34.50	40.50	39.60 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q2		4549

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]	THEORETICAL [mm]
588.40	+	0.00	=
		588.40	MIN 587.50
			MAX 590.00

RIGHT JACK LOAD
6695 Kg

BOGIE SERIAL N°

595

BOGIE TYPE

TBINT

BOGIE WEIGHT
UNDER LOAD [Kg]

18345

COMPLETE
BOGIE WEIGHT [Kg]

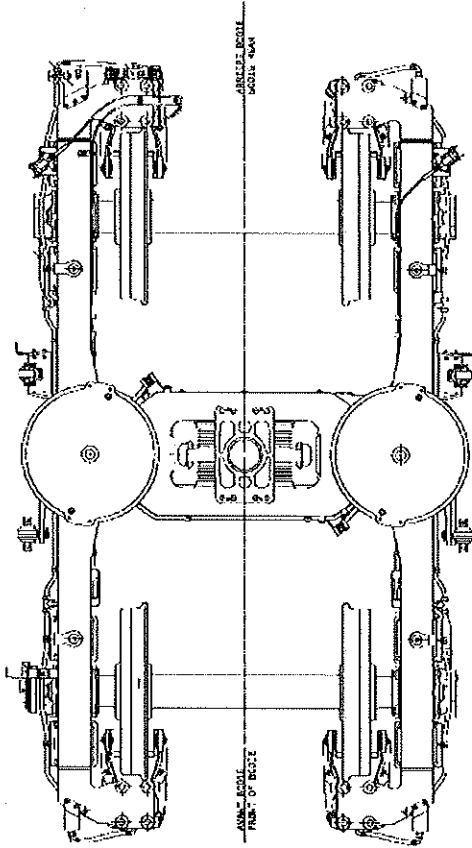
4597

OPERATOR

BAFANA

DATE

3/6/2024



OPERATOR STAMP

DO-3710

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	34.50	40.50	39.69 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q1		4595

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.20	+	0.00	=
		589.20	MIN 587.50
			MAX 590.00

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

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	34.50	40.50	40.10 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q4		4570

		THEORETICAL		MEASURED
		MIN	MAX	
LOAD DIFFERENCE ON FRONT AXLE [%]		-2.00	2.00	0.50 ✓
LOAD DIFFERENCE ON REAR AXLE [%]		-2.00	2.00	0.65 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]		-2.00	2.00	-0.31 ✓
LOAD DIFFERENCE ON RAILS [%]		-2.00	2.00	0.58 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]		-2.00	2.00	0.08 ✓

LEFT JACK LOAD
6694 Kg

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	34.50	40.50	38.70 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q3		4630