

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

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILE BOGIE TBEXT**

DTR0009706803

SERIAL NUMBER **TBEXT 581**

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 February 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	581		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	T831		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T01533		Alstom - Ubunye
Axle	AR00000174678	114890	12176732	Jinxi
Wheel (Right)	AR00000174670	123	07-23	Bonatrans
Wheel (Left)	AR000000174670	082	07-23	Bonatrans
Wheelset (Rear)	AR00000185203	T01534		Alstom - Ubunye
Axle	AR00000174678	114488	12176733	Jinxi
Wheel (Right)	AR00000174670	129	07-23	Bonatrans
Wheel (Left)	AR00000174670	130	07-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2401092		TMT
Pneumatic suspension (Left)	AR00000176127	2401053		TMT
Brake unit with PB (Right rear)	AR00000174544	1575	01-24	Wabtec
Brake unit without PB (Right front)	AR00000175185	4760	01-24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	4766	01-24	Wabtec
Brake unit without PB (left rear)	AR00000175185	4767	01-24	Wabtec

DATE VALIDATION

RESPONSABLE VALIDATION

PRASA INSTRUCTION SHEET:

FAMILY:

LOAD TEST : TBEXT

PROJECT:

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 39.00
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	5412

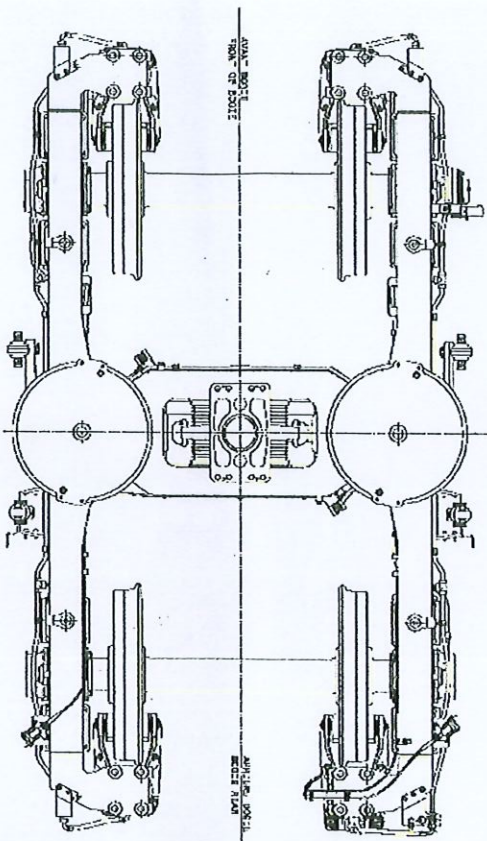
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.57	+	4.00	=
			590.57
			MIN MAX
			590.00 592.50

RIGHT JACK LOAD	
8453	Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 39.00
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	5442

BOGIE SERIAL N°	581
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21882
COMPLETE BOGIE WEIGHT [Kg]	4652
OPERATOR	DATE
BAFANA	2/22/2024

OPERATOR STAMP	
DC-371-6	



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN MAX	0.00 1.11
LOAD DIFFERENCE ON REAR AXLE [%]	MIN MAX	0.00 0.48
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN MAX	0.00 0.04
LOAD DIFFERENCE ON RAILS [%]	MIN MAX	0.00 0.79
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN MAX	0.00 -0.32

LEFT JACK LOAD	
8453	Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 39.00
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5533

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.62	+	4.00	=
			590.62
			MIN MAX
			590.00 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			
-0.05			
			MIN MAX
			-1.00 1.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 39.00
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5494

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

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE TBINT**

DTR0009706803

SERIAL NUMBER **TBINT 587**

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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"/>
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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	22 February 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	587		Alstom - Abunye
Trailer Bogie Frame	AR000000176083	T828		Alstom - Ubunye
Wheelset (Front)	AR0000000177020	T01523		Alstom - Ubunye
Axle	AR000000174678	114489	12176733	Jinxi
Wheel (Right)	AR000000174670	076	02-23	Bonatrans
Wheel (Left)	AR0000000174670	117	02-23	Bonatrans
Wheelset (Rear)	AR000000185203	T01524		Alstom Ubunye
Axle	AR000000174678	114898	12176732	Jinxi
Wheel (Right)	AR000000174670	137	07-23	Bonatrans
Wheel (Left)	AR000000174670	155	07-23	Bonatrans
Pneumatic suspension (Right)	AR000000176127	2311158		TMT
Pneumatic suspension (Left)	AR000000176127	2312059		TMT
Brake unit with PB (Right rear)	AR000000174544	1586	01-24	WABTEC
Brake unit without PB (Right front)	AR000000175185	4758	01-24	WABTEC
Brake unit without PB (Left Front)	AR000000175185	4757	01=24	WABTEC
Brake unit without PB (left rear)	AR000000175185	4759	01-24	WABTEC

2/21/2024

DATE VALIDATION

RESPONSABLE VALIDATION

PRASA

INSTRUCTION SHEET:

PRESSING REPORT

LOAD TEST : TBINT

PROJECT : PRASA

FAMILY:

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.34 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	4523

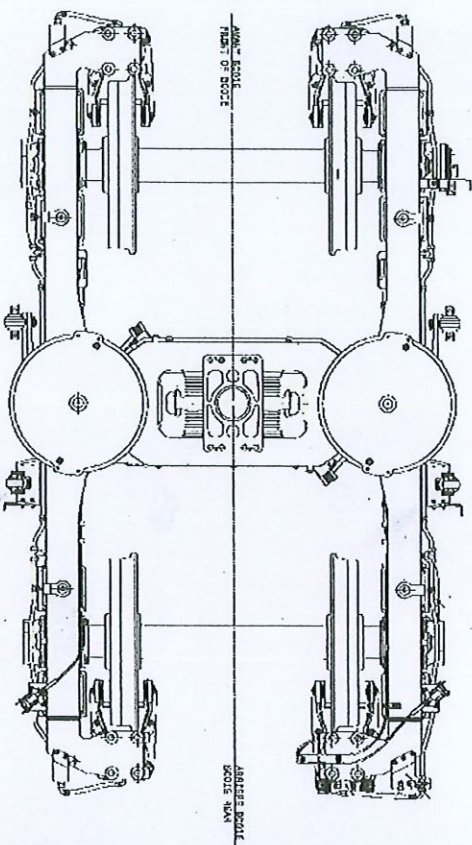
SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.62	+	0.00	= 589.62
			MIN MAX
			587.50 590.00

RIGHT JACK LOAD
6696 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.27 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	4636

BOGIE SERIAL N°	587
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18357
COMPLETE BOGIE WEIGHT [Kg]	4674
OPERATOR	DATE
BAFANA	2/21/2024

OPERATOR STAMP
DC-3FH-6



	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

LEFT JACK LOAD
6695 Kg

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.62	+	1.00	= 589.62
			MIN MAX
			587.50 590.00

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	0.00	THEORETICAL [mm]
		MIN MAX
		-1.00 1.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	4624

	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	4574