

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 - 576**

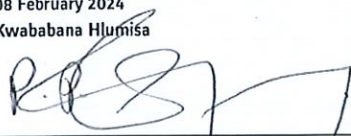
CONTENTS

- 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	08 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	576		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T0821		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T01513		Alstom - Ubunye
Axle	AR00000174678	108027	1232169	Jinxi
Wheel (Right)	AR00000174670	092	04-23	Bonatrans
Wheel (Left)	AR000000174670	091	04-23	Bonatrans
Wheelset (Rear)	AR00000185203	T01514		Alstom Ubunye
Axle	AR00000174678	101539	1230018	Jinxi
Wheel (Right)	AR00000174670	014	11-22	Bonatrans
Wheel (Left)	AR00000174670	016	11-22	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2310157		TMT
Pneumatic suspension (Left)	AR00000176127	2311005		TMT
Brake unit with PB (Right rear)	AR00000174544	1558	12-23	Wabtec
Brake unit without PB (Right front)	AR00000175185	4710	12-23	Wabtec
Brake unit without PB (Left Front)	AR00000175185	4703	12-23	Wabtec
Brake unit without PB (left rear)	AR00000175185	4705	12-23	Wabtec

PRESSING REPORT

DATE 2/8/2024	RESPONSABLE VALIDATION	PRASA ALSTOM USUNYE		LOAD TEST : TBEXT
DATE VALIDATION		INSTRUCTION SHEET:		PROJECT:
		FAMILY:		

	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	38.60 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	5381

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
587.49	+	3.00	= 590.49 MIN 590.00 MAX 592.50

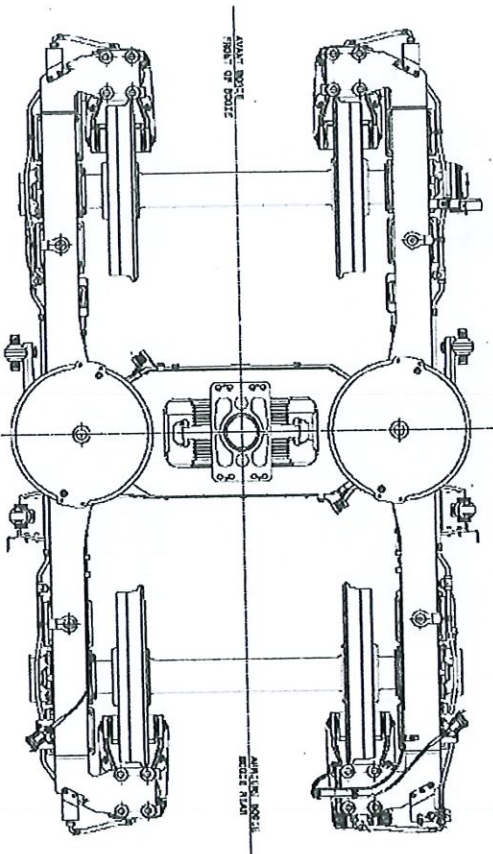
RIGHT JACK LOAD
8453 Kg

	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	38.70 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	5475

BOGIE SERIAL N°	576
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21812
COMPLETE BOGIE WEIGHT [Kg]	4598
OPERATOR	DATE
BAFANA	2/8/2024

OPERATOR STAMP

DC-BFI-6



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN 0.00 MAX 0.00	1.05 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN 0.00 MAX 0.00	-0.13 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN 0.00 MAX 0.00	-0.28 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN 0.00 MAX 0.00	0.46 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN 0.00 MAX 0.00	-0.59 ✓

LEFT JACK LOAD
8453 Kg

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.58	+	2.00	= 590.58 MIN 590.00 MAX 592.50
DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm] ✓			
-0.09			THEORETICAL [mm] MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	38.49 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5495

	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.62 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5461



ALSTOM UBUNYE

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 - 584


CONTENTS

- Compliance certificate.....	Page 1/2	<input checked="" type="checkbox"/>
- List of deviations and missing parts.....	Page 2/2	<input checked="" type="checkbox"/>
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COMPLIANCE CERTIFICATE

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CONSTRUCTOR APPROVAL

DATE	09 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	584		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	T0822		Poland -MZ
Wheelset (Front)	AR000000177020	T01515		Alstom - Ubunye
Axle	AR00000174678	101515	1230044	Jinxi
Wheel (Right)	AR00000174670	103	07-23	Bonatrans
Wheel (Left)	AR000000174670	102	07-23	Bonatrans
Wheelset (Rear)	AR00000185203	T01516		Alstom - Ubunye
Axle	AR00000174678	101437	1230044	Jinxi
Wheel (Right)	AR00000174670	095	07-23	Bonatrans
Wheel (Left)	AR00000174670	102	04-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2311009		TMT
Pneumatic suspension (Left)	AR00000176127	2311043		TMT
Brake unit with PB (Right rear)	AR00000174544	968	08-23	Wabtec
Brake unit without PB (Right front)	AR00000175185	2870	08-23	Wabtec
Brake unit without PB (Left Front)	AR00000175185	2869	08-23	Wabtec
Brake unit without PB (left rear)	AR00000175185	2869	08-23	Wabtec

PRESSING REPORT

DATE 2/8/2024	RESPONSABLE VALIDATION	PRASA ALSTOM URSUNYE	LOAD TEST : TINT
DATE VALIDATION		INSTRUCTION SHEET:	PROJECT: PRASA
		FAMILY:	

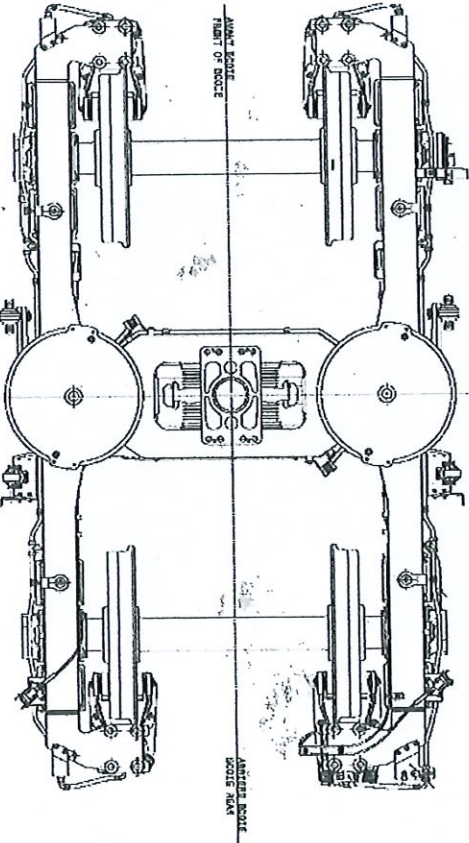
	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	4536

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.92	+	0.00	= 589.92
			MIN 587.50 MAX 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	4595

BOGIE SERIAL N°	584
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18340
COMPLETE BOGIE WEIGHT [Kg]	4604
OPERATOR	DATE
BAFANA	2/8/2024



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN -2.00 MAX 2.00	0.90
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.04
LOAD DIFFERENCE ON FRONT AXLE AND REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.17
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00 MAX 2.00	0.43
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00 MAX 2.00	-0.47

OPERATOR STAMP
DC-3F1-6

LEFT JACK LOAD
6694 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	4618

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.87	+	0.00	= 589.87
			MIN 587.50 MAX 590.00

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	0.05	THEORETICAL [mm]
		MIN -1.00 MAX 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]	Q3	4591