

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 - 598**

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

04 April 2024
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	598		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T0 863		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T0 1599		Alstom - Ubunye
Axle	AR00000174678	114652	12176732	Jinxi
Wheel (Right)	AR00000174670	088	07.23	Bonatrans
Wheel (Left)	AR000000174670	099	11.22	Bonatrans
Wheelset (Rear)	AR00000185203	T0 1600		Alstom Ubunye
Axle	AR00000174678	114887	12176732	Jinxi
Wheel (Right)	AR00000174670	087	07.23	Bonatrans
Wheel (Left)	AR00000174670	0117	11.22	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2308020		TMT
Pneumatic suspension (Left)	AR00000176127	2308046		TMT
Brake unit with PB (Right rear)	AR00000174544	1694	03.24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5104	03.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5105	03.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5106	03.24	Wabtec

DATE 4/4/2024

RESPONSABLE VALIDATION

PRASA

LOAD TEST: TBEXT

PROJECT:

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.22 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	5428

SECONDARY SUSPENSION			DIM. WITH SHIM [mm]	THEORETICAL [mm]
MEASURED [mm]	SHIM THICK [mm]			
587.04	+	4.00	=	591.04
				MIN 590.00
				MAX 592.50

RIGHT JACK LOAD
8452 Kg

BOGIE SERIAL N°	598
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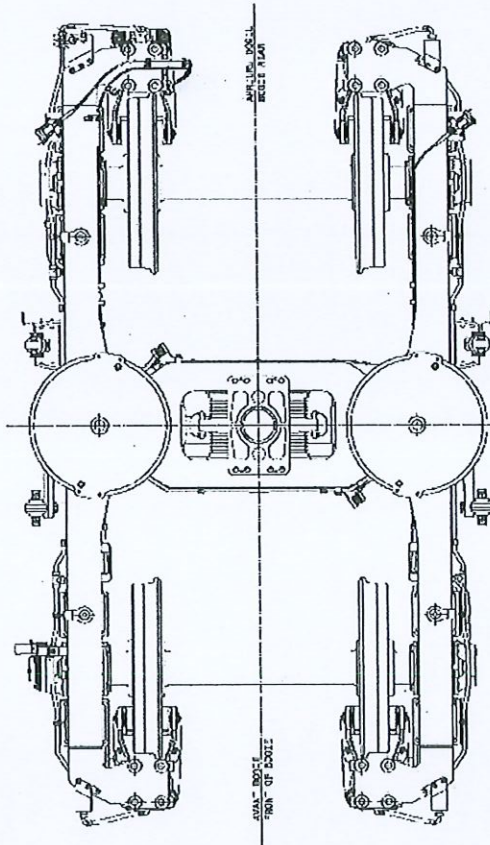
BOGIE TYPE	TBEXT
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BOGIE WEIGHT UNDER LOAD [Kg]	21861
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COMPLETE BOGIE WEIGHT [Kg]	4617
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OPERATOR	DATE
EDWARD	4/4/2024

BFI-21



LEFT JACK LOAD	8453	Kg
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	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	37.16 39.00
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5473

SECONDARY SUSPENSION			DIM. WITH SHIM [mm]	THEORETICAL [mm]
MEASURED [mm]	SHIM THICK [mm]			
587.70	+	4.00	=	591.70
				MIN 590.00
				MAX 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	THEORETICAL [mm]
-0.66	MIN -1.00
	MAX 1.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.25
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	5418

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE ON REAR AXLE [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE ON FRONT AXLE AND REAR AXLE [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE ON RAILS [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN	0.00
	MAX	0.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	37.50 37.50
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5542

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 - 604

CONTENTS

- Compliance certificate.....	Page 1/2	<input checked="" type="checkbox"/>
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- Products traceability.....	1 page	<input checked="" type="checkbox"/>
- Load test report.....	1 page	<input checked="" type="checkbox"/>

COMPLIANCE CERTIFICATE

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CONSTRUCTOR APPROVAL

DATE	05 April 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	604		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	T0 870		Poland -MZ
Wheelset (Front)	AR000000177020	T0 1597		Alstom - Ubunye
Axle	AR00000174678	114904	12/76732	Jinxi
Wheel (Right)	AR00000174670	105	11.22	Bonatrans
Wheel (Left)	AR000000174670	095	11.22	Bonatrans
Wheelset (Rear)	AR00000185203	T0 1598		Alstom - Ubunye
Axle	AR00000174678	114537	12/76733	Jinxi
Wheel (Right)	AR00000174670	125	11.22	Bonatrans
Wheel (Left)	AR00000174670	071	11.22	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2308087		TMT
Pneumatic suspension (Left)	AR00000176127	2307080		TMT
Brake unit with PB (Right rear)	AR00000174544	1692	03.24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5096	03.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5099	03.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5098	03.24	Wabtec

PRESSING REPORT

DATE 4/5/2024	RESPONSABLE VALIDATION	PRASA INSTRUCTION SHEET: FAMILY:	LOAD TEST : PROJECT: PRASA
DATE VALIDATION		LOAD TEST : PROJECT: PRASA	

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	4539

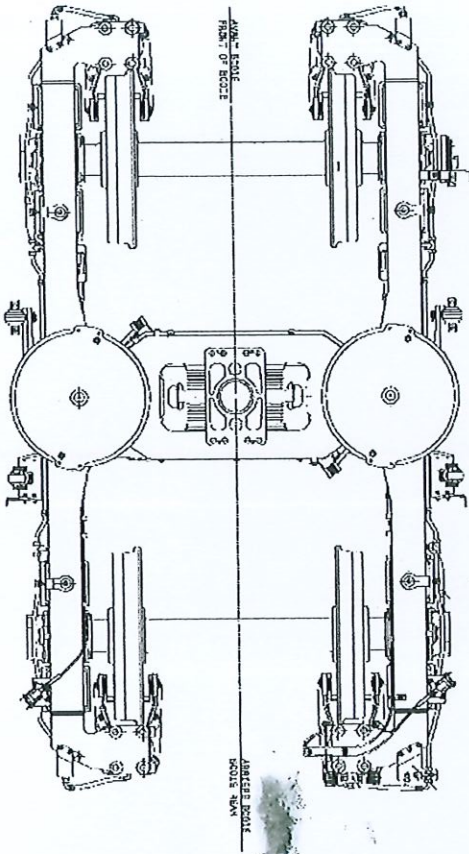
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.03	+	0.00	= 589.03
			MIN 587.50 MAX 590.00

RIGHT JACK LOAD
6695 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	4653

BOGIE SERIAL N°	604
BOGIE TYPE	TRINT
BOGIE WEIGHT UNDER LOAD [kg]	18355
COMPLETE BOGIE WEIGHT [kg]	4613
OPERATOR	DATE
EDWARD	4/5/2024

OPERATOR STAMP
BFI-21



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN -2.00 MAX 2.00	0.93
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00 MAX 2.00	-1.24
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.16
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00 MAX 2.00	-0.16
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00 MAX 2.00	-1.08

LEFT JACK LOAD
6695 Kg

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIV. WITH SHIM [mm]	THEORETICAL [mm]
586.72	+	2.00	= 588.72
			MIN 587.50 MAX 590.00

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	0.31	THEORETICAL [mm]
		MIN -1.00 MAX 1.00

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

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	4539