

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

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

### MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE TBEXT**

**DTR0009706803**


SERIAL NUMBER **TBEXT 592**

### 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	19 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	592		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	7850		Alstom - Ubunye
Wheelset (Front)	AR000000177020	701579		Alstom - Ubunye
Axle	AR00000174678	107360	12176717	Jinxi
Wheel (Right)	AR00000174670	083	11-23	Bonatrans
Wheel (Left)	AR000000174670	082	11-23	Bonatrans
Wheelset (Rear)	AR00000185203	701578		Alstom Ubunye
Axle	AR00000174678	102075	D1230038	Jinxi
Wheel (Right)	AR00000174670	137	12-23	Bonatrans
Wheel (Left)	AR00000174670	139	12-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2311146		TMT
Pneumatic suspension (Left)	AR00000176127	2311073		TMT
Brake unit with PB (Right rear)	AR00000174544	1665	03-24	WABTEC
Brake unit without PB (Right front )	AR00000175185	5021	03-24	WABTEC
Brake unit without PB (Left Front)	AR00000175185	5022	03-24	WABTEC
Brake unit without PB (left rear)	AR00000175185	5020	03-24	WABTEC



## PRESSING REPORT

DATE  
3/18/2024

RESPONSABLE VALIDATION

PRASA 4157 M. LILLO

INSTRUCTION SHEET:

FAMILY:

LOAD TEST: TBEXT

PROJECT:

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN	38.50
	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	39.00
	MAX	
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	5464

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.96	+	2.00	MIN
			MAX
			590.00
			592.50

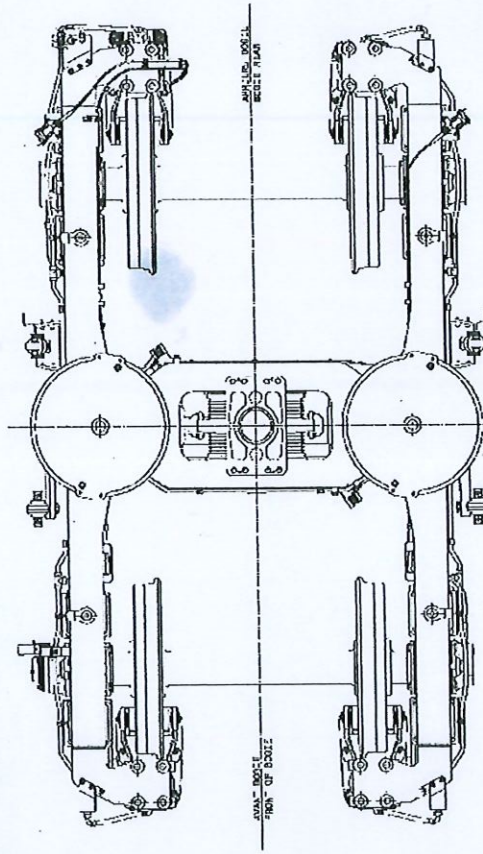
RIGHT JACK LOAD

8452 Kg

BOGIE SERIAL N°	592
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21851
COMPLETE BOGIE WEIGHT [Kg]	4632
OPERATOR	BAFANA
DATE	3/18/2024

OPERATOR STAMP

DC-BFI-6



	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN	
	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	38.20
	MAX	
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5472

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.42	+	2.00	MIN
			MAX
			590.42
			592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]

0.54

THEORETICAL [mm]

MIN

MAX

-1.00

1.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	38.80 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	5394

LOAD DIFFERENCE ON FRONT AXLE [%]	THEORETICAL		MEASURED
	MIN	MAX	
0.00			0.07
0.00			
LOAD DIFFERENCE ON REAR AXLE [%]	MIN	MAX	1.16
	0.00	0.00	
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN	MAX	0.10
	0.00	0.00	
LOAD DIFFERENCE ON RAILS [%]	MIN	MAX	0.62
	0.00	0.00	
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN	MAX	0.54
	0.00	0.00	

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.79
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5521

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 - 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

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#### CONSTRUCTOR APPROVAL

DATE	18 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	598		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	T0 854		Poland -MZ
Wheelset (Front)	AR000000177020	T0 1577		Alstom - Ubunye
Axle	AR00000174678	107290	12176717	Jinxi
Wheel (Right)	AR00000174670	142	12.23	Bonatrans
Wheel (Left)	AR000000174670	018	12.23	Bonatrans
Wheelset (Rear)	AR00000185203	T0 1576		Alstom - Ubunye
Axle	AR00000174678	107295	12176717	Jinxi
Wheel (Right)	AR00000174670	131	11.23	Bonatrans
Wheel (Left)	AR00000174670	189	11.23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2311138		TMT
Pneumatic suspension (Left)	AR00000176127	2310191		TMT
Brake unit with PB (Right rear)	AR00000174544	1669	03.24	Wabtec
Brake unit without PB (Right front )	AR00000175185	5026	03.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5027	03.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5028	03.24	Wabtec



PRESSING REPORT

DATE 3/8/2024	RESPONSABLE VALIDATION	PRASA ALST P0000000	LOAD TEST : TBINT
DATE VALIDATION		INSTRUCTION SHEET:	PROJECT: PRASA
		FAMILY:	

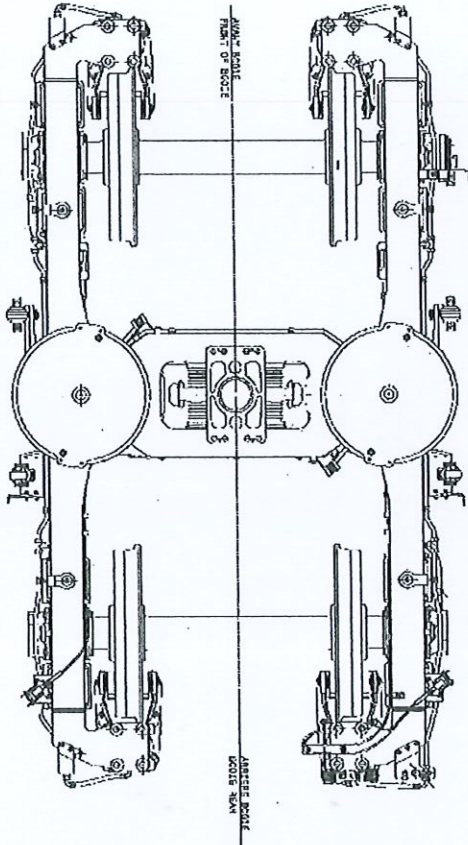
	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		38.57
WEIGHT ON WHEEL [Kg]	Q2	4574

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
587.64	+	1.00	= 588.64
			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]		38.70
WEIGHT ON WHEEL [Kg]	Q4	4599

BOGIE SERIAL N°	598
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18326
COMPLETE BOGIE WEIGHT [Kg]	4575
OPERATOR	EDWARD
DATE	3/18/2024



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN -2.00 MAX 2.00	-0.04
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.16
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.21
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00 MAX 2.00	-0.10
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00 MAX 2.00	-0.06

OPERATOR STAMP
BF1-21

LEFT JACK LOAD
6695 Kg

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.95	+	0.00	= 588.95
			MIN 587.50 MAX 590.00

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	-0.31	THEORETICAL [mm]	MIN -1.00 MAX 1.00
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	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		38.72
WEIGHT ON WHEEL [Kg]	Q1	4570

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		38.14
WEIGHT ON WHEEL [Kg]	Q3	4584