

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 582**

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>PP</i> <i>JRox</i>

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	582		Alstom - Ubunye
Trailer Bogie Frame	AR000000176083	T832		Alstom - Ubunye
Wheelset (Front)	AR0000000177020	T01535		Alstom - Ubunye
Axle	AR000000174678	102143	D1230038	Jinxi
Wheel (Right)	AR000000174670	013	11-22	Bonatrans
Wheel (Left)	AR0000000174670	020	11-22	Bonatrans
Wheelset (Rear)	AR000000185203	T01536		Alstom - Ubunye
Axle	AR000000174678	102109	D1230038	Jinxi
Wheel (Right)	AR000000174670	013	11-22	Bonatrans
Wheel (Left)	AR000000174670	079	04--25	Bonatrans
Pneumatic suspension (Right)	AR000000176127	2310151		TMT
Pneumatic suspension (Left)	AR000000176127	2311038		TMT
Brake unit with PB (Right rear)	AR000000174544	1607	02-24	Wabtec
Brake unit without PB (Right front)	AR000000175185	4845	02-24	Wabtec
Brake unit without PB (Left Front)	AR000000175185	4839	02-24	Wabtec
Brake unit without PB (left rear)	AR000000175185	4847	02-24	Wabtec

DATE VALIDATION

RESPONSABLE VALIDATION

PRASA

INSTRUCTION SHEET:

FAMILY:

PRESSING REPORT

LOAD TEST : TBEXT

PROJECT:

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.32 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	5453

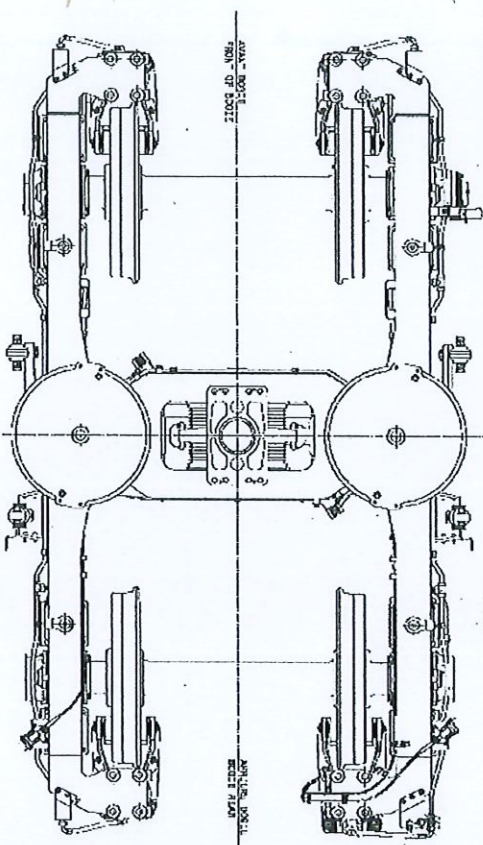
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]	THEORETICAL [mm]
587.94	+	3.00	= 590.94
			MIN 590.00 MAX 592.50

RIGHT JACK LOAD
8454 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.82 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	5473

BOGIE SERIAL N°	582
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	22895
COMPLETE BOGIE WEIGHT [Kg]	4672
OPERATOR	DATE
EDWARD	2/23/2024

OPERATOR STAMP
BF1-21



LEFT JACK LOAD
8454 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.64 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5509

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
585.01	+	5.00	= 590.01
			MIN 590.00 MAX 592.50

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	36.84 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5462

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN 0.00 MAX 0.00	0.51 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN 0.00 MAX 0.00	-0.10 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN 0.00 MAX 0.00	0.12 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN 0.00 MAX 0.00	0.21 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN 0.00 MAX 0.00	-0.31 ✓



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 - 588

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"/>

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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 TBINT	DTR0009706802	588		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	T0829		Poland -MZ
Wheelset (Front)	AR000000177020	T01525		Alstom - Ubunye
Axle	AR00000174678	114874	12176732	Jinxi
Wheel (Right)	AR00000174670	112	10-23	Bonatrans
Wheel (Left)	AR000000174670	111	10-23	Bonatrans
Wheelset (Rear)	AR00000185203	T01528		Alstom - Ubunye
Axle	AR00000174678	114955	12176732	Jinxi
Wheel (Right)	AR00000174670	072	02-23	Bonatrans
Wheel (Left)	AR00000174670	016	07-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2311018		TMT
Pneumatic suspension (Left)	AR00000176127	2311029		TMT
Brake unit with PB (Right rear)	AR00000174544	1564	01-24	Wabtec
Brake unit without PB (Right front)	AR00000175185	4715	01-24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	4713	01-24	Wabtec
Brake unit without PB (left rear)	AR00000175185	4716	01-24	Wabtec

PRESSING REPORT

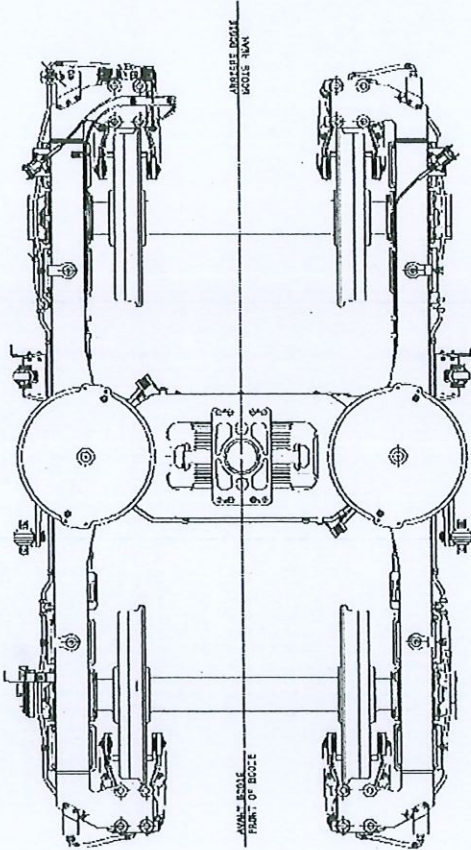
DATE 2/23/2024	RESPONSABLE VALIDATION	PRASA	LOAD TEST : TBINT
DATE VALIDATION		INSTRUCTION SHEET:	
		FAMILY:	
		PROJECT: PRASA	

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	40.39
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q4		4578

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
583.78	+	5.00	MIN 587.50
			MAX 590.00

RIGHT JACK LOAD
6695 Kg

BOGIE SERIAL N°	588
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18321
COMPLETE BOGIE WEIGHT [Kg]	4586
OPERATOR	BAFANA
DATE	2/23/2024



LEFT JACK LOAD
6694 Kg

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	39.28
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q3		4612

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.26	+	0.00	MIN 587.50
			MAX 590.00

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	THEORETICAL [mm]
-0.48	MIN -1.00
	MAX 1.00

OPERATOR STAMP
DC-BFI-6

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	40.10
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q1		4625