

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 - 589**

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"/>

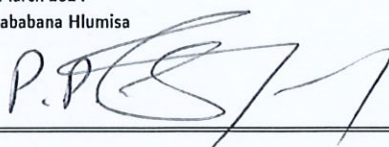
COMPLIANCE CERTIFICATE

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
VISA

07 March 2024
Kwababana Hlumisa



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	589		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T0848		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T01561		Alstom - Ubunye
Axle	AR00000174678	101444	1230044	Jinxi
Wheel (Right)	AR00000174670	048	10-23	Bonatrans
Wheel (Left)	AR000000174670	153	10-23	Bonatrans
Wheelset (Rear)	AR00000185203	T01562		Alstom Ubunye
Axle	AR00000174678	101492	1230044	Jinxi
Wheel (Right)	AR00000174670	012	10-23	Bonatrans
Wheel (Left)	AR00000174670	054	02-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2312106		TMT
Pneumatic suspension (Left)	AR00000176127	2401112		TMT
Brake unit with PB (Right rear)	AR00000174544	1638	02-24	Wabtec
Brake unit without PB (Right front)	AR00000175185	4934	02-24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	4933	02-24	Wabtec
Brake unit without PB (left rear)	AR00000175185	4936	02-24	Wabtec

QC: 018
Revision: 1.0

RESPONSABLE VALIDATION

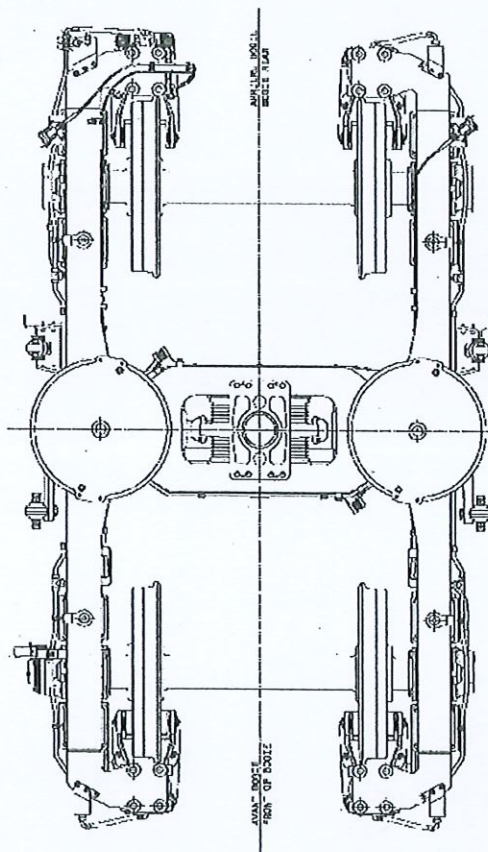
DATE 3/7/2024	RESPONSABLE VALIDATION	PRASA 3/7/2024 10:12:00 AM	PRESSING REPORT	
DATE VALIDATION			INSTRUCTION SHEET:	LOAD TEST : TTEXT
			FAMILY:	PROJECT:

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.51 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [kg]	Q2	5464

SECONDARY SUSPENSION			THEORETICAL [mm]
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]	
586.23	+	4.00 = 590.23	MIN 590.00 MAX 592.50

RIGHT JACK LOAD	8453	Kg
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BOGIE SERIAL N°	589
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21904
COMPLETE BOGIE WEIGHT [Kg]	4662
OPERATOR	DATE
BAFANA	3/7/2024



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN 0.00	0.37 ✓
	MAX 0.00	
LOAD DIFFERENCE ON REAR AXLE [%]	MIN 0.00	0.04 ✓
	MAX 0.00	
LOAD DIFFERENCE ON FRONT AXLE AND REAR AXLE [%]	MIN 0.00	0.15 ✓
	MAX 0.00	
LOAD DIFFERENCE ON RAILS [%]	MIN 0.00	0.21 ✓
	MAX 0.00	
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN 0.00	-0.17 ✓
	MAX 0.00	

OPERATOR STAMP

DC-371-6

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.71 
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5505

SECONDARY SUSPENSION				✓
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]	
588.75	+	2.00	=	590.75
				MIN 590.00
				MAX 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]		✓
-0.52		
	MIN	-1.00
	MAX	1.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	38.50 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [kg]	Q3	5470

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

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE TBINT**

DTR0009706802

SERIAL NUMBER **TBINT 594**

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	06 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	594		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T845		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T01559		Alstom - Ubunye
Axle	AR00000174678	11468	12176732	Jinxi
Wheel (Right)	AR00000174670	013	02-23	Bonatrans
Wheel (Left)	AR000000174670	075	02-23	Bonatrans
Wheelset (Rear)	AR00000185203	T01560		Alstom Ubunye
Axle	AR00000174678	114475	12176733	Jinxi
Wheel (Right)	AR00000174670	003	02-23	Bonatrans
Wheel (Left)	AR00000174670	010	02-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2309079		TMT
Pneumatic suspension (Left)	AR00000176127	2309074		TMT
Brake unit with PB (Right rear)	AR00000174544	1634	02-24	WABTEC
Brake unit without PB (Right front)	AR00000175185	4921	02-24	WABTEC
Brake unit without PB (Left Front)	AR00000175185	4926	02=24	WABTEC
Brake unit without PB (left rear)	AR00000175185	4922	02-24	WABTEC

DATE
3/5/2024

RESPONSABLE VALIDATION

PRASA

INSTRUCTION SHEET:

FAMILY:

LOAD TEST: TBINT

PROJECT: PRASA

PRESSING REPORT

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	40.01 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q2		4583

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.14	+	0.00 =	MIN 587.50 MAX 590.00

RIGHT JACK LOAD
6695 Kg

BOGIE SERIAL N°

594

BOGIE TYPE

TBINT

BOGIE WEIGHT
UNDER LOAD [Kg]

18344

COMPLETE
BOGIE WEIGHT [Kg]

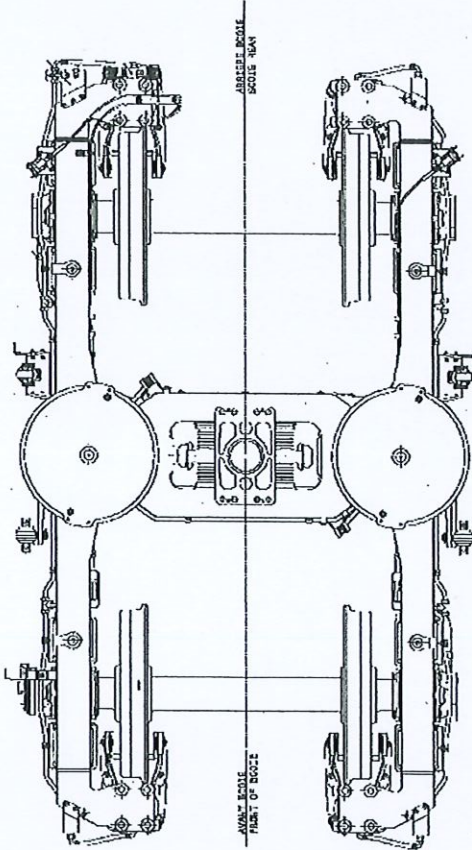
4604

OPERATOR

EDWARD

DATE

3/5/2024



OPERATOR STAMP

DC-BFI-6

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	40.00 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q1		4562

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.07	+	0.00 =	MIN 587.50 MAX 590.00

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

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	40.18 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q4		4625

		THEORETICAL		MEASURED
		MIN	MAX	
LOAD DIFFERENCE ON FRONT AXLE [%]		-2.00	2.00	-0.23 ✓
LOAD DIFFERENCE ON REAR AXLE [%]		-2.00	2.00	-0.55 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]		-2.00	2.00	-0.29 ✓
LOAD DIFFERENCE ON RAILS [%]		-2.00	2.00	-0.39 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]		-2.00	2.00	-0.16 ✓

LEFT JACK LOAD
6695 Kg

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	39.58 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q3		4574