

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 - 599**

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

09 April 2024
Kwababana Hjumisa



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	599		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T0 867		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T0 1603		Alstom - Ubunye
Axle	AR00000174678	114502	12176733	Jinxi
Wheel (Right)	AR00000174670	126	11.23	Bonatrans
Wheel (Left)	AR000000174670	125	11.23	Bonatrans
Wheelset (Rear)	AR00000185203	T0 1604		Alstom Ubunye
Axle	AR00000174678	114501	12176733	Jinxi
Wheel (Right)	AR00000174670	002	11.23	Bonatrans
Wheel (Left)	AR00000174670	010	11.23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2310142		TMT
Pneumatic suspension (Left)	AR00000176127	2401098		TMT
Brake unit with PB (Right rear)	AR00000174544	1697	04.24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5116	04.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5117	04.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5118	04.24	Wabtec

PRESSING REPORT

DATE 4/8/2024	RESPONSABLE VALIDATION	PRASA INSTRUCTION SHEET:	LOAD TEST : TBEXT
DATE VALIDATION		FAMILY:	PROJECT:

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	36.72 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	5383

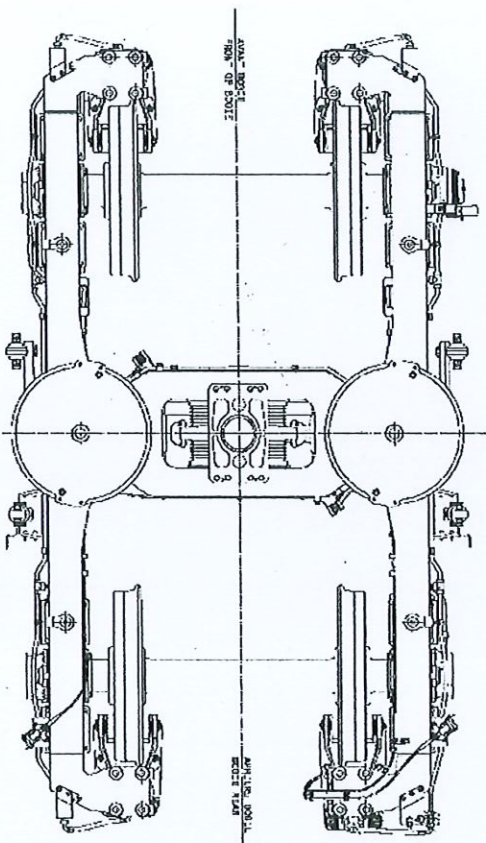
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.43	+	4.00	= 590.43 MIN 590.00 MAX 592.50

RIGHT JACK LOAD
8453 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	36.61 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	5542

BOGIE SERIAL N°	599
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21863
COMPLETE BOGIE WEIGHT [Kg]	4677
OPERATOR	DATE
EDWARD	4/8/2024

OPERATOR STAMP
BFI-21



LEFT JACK LOAD
8453 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	36.30 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5524

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.44	+	4.00	= 590.44 MIN 590.00 MAX 592.50
DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			✓
-0.01			MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN 0.00 MAX 0.00	1.29 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN 0.00 MAX 0.00	-1.17 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN 0.00 MAX 0.00	-0.22 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN 0.00 MAX 0.00	0.06 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN 0.00 MAX 0.00	-1.23 ✓

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	36.41 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5414

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 605**

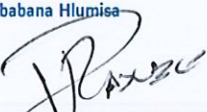
CONTENTS

- 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	08 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	605		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	7872		Alstom - Ubunye
Wheelset (Front)	AR000000177020	701601		Alstom - Ubunye
Axle	AR00000174678	114901	12176732	Jinxi
Wheel (Right)	AR00000174670	091	11-23	Bonatrans
Wheel (Left)	AR000000174670	101	11-23	Bonatrans
Wheelset (Rear)	AR00000185203	701602		Alstom Ubunye
Axle	AR00000174678	114468	12176733	Jinxi
Wheel (Right)	AR00000174670	097	11-23	Bonatrans
Wheel (Left)	AR00000174670	099	11-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2401115		TMT
Pneumatic suspension (Left)	AR00000176127	2401109		TMT
Brake unit with PB (Right rear)	AR00000174544	1700	04-23	WABTEC
Brake unit without PB (Right front)	AR00000175185	5124	04-24	WABTEC
Brake unit without PB (Left Front)	AR00000175185	5125	04-24	WABTEC
Brake unit without PB (left rear)	AR00000175185	5126	04-24	WABTEC

PRESSING REPORT

DATE 4/8/2024	RESPONSABLE VALIDATION	PRASA	LOAD TEST : TBINT
DATE VALIDATION		INSTRUCTION SHEET:	PROJECT: PRASA
		FAMILY:	

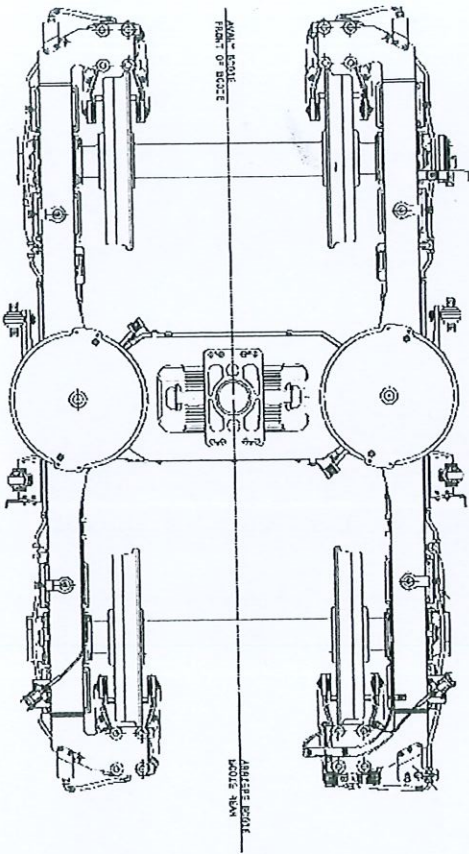
	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	4585

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
587.42	+	2.00	= 589.42
			MIN 587.50 MAX 590.00

RIGHT 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]	Q4	4594

BOGIE SERIAL N°	605
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18369
COMPLETE BOGIE WEIGHT [Kg]	4629
OPERATOR	DATE
EDWARD	4/8/2024



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN -2.00 MAX 2.00	-0.07
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00 MAX 2.00	0.18
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.22
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00 MAX 2.00	0.06
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00 MAX 2.00	0.13

OPERATOR STAMP
BF1-21

LEFT JACK LOAD
6695 Kg

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.59	+	0.00	= 589.59
			MIN 587.50 MAX 590.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	34.50 40.50
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	4579

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	∅	THEORETICAL [mm]
-0.17		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	4611