

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 - 609**

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- 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"/>

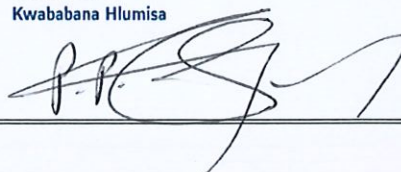
COMPLIANCE CERTIFICATE

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 May 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	609		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	889		Alstom - Ubunye
Wheelset (Front)	AR000000177020	1641		Alstom - Ubunye
Axle	AR00000174678	101447	1230044	Jinxi
Wheel (Right)	AR00000174670	006	12-23	Bonatrans
Wheel (Left)	AR000000174670	004	12-23	Bonatrans
Wheelset (Rear)	AR00000185203	1642		Alstom - Ubunye
Axle	AR00000174678	101451	1230044	Jinxi
Wheel (Right)	AR00000174670	002	12.23	Bonatrans
Wheel (Left)	AR00000174670	001	12.23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2401058		TMT
Pneumatic suspension (Left)	AR00000176127	2312154		TMT
Brake unit with PB (Right rear)	AR00000174544	1759	05.24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5304	05.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5307	05.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5308	05.24	Wabtec

PRESSING REPORT

5/8/2024

DATE VALIDATION

RESPONSABLE VALIDATION

PRASA

ALST. NORRONE

INSTRUCTION SHEET:

FAMILY:

LOAD TEST : TBEXT

PROJECT:

THEORETICAL

MEASURED

WHEEL

DIAMETER [mm]

MIN

MAX

GAP PRIMARY

SUSPENSION [mm]

MIN

MAX

SHIM THICK [mm]

WHEEL ON

WHEEL [Kg]

Q2

5375

SECONDARY SUSPENSION

MEASURED [mm]

SHIM THICK [mm]

DIM. WITH SHIM [mm]

THEORETICAL [mm]

587.61

+

3.00

=

590.61

MIN

MAX

592.50

RIGHT JACK LOAD

8453 Kg

THEORETICAL

MEASURED

WHEEL

DIAMETER [mm]

MIN

MAX

GAP PRIMARY

SUSPENSION [mm]

MIN

MAX

SHIM THICK [mm]

WHEEL ON

WHEEL [Kg]

Q4

5522

BOGIE SERIAL N°

609

BOGIE TYPE

TBEXT

BOGIE WEIGHT

21857

COMPLETE

BOGIE WEIGHT [Kg]

4611

OPERATOR

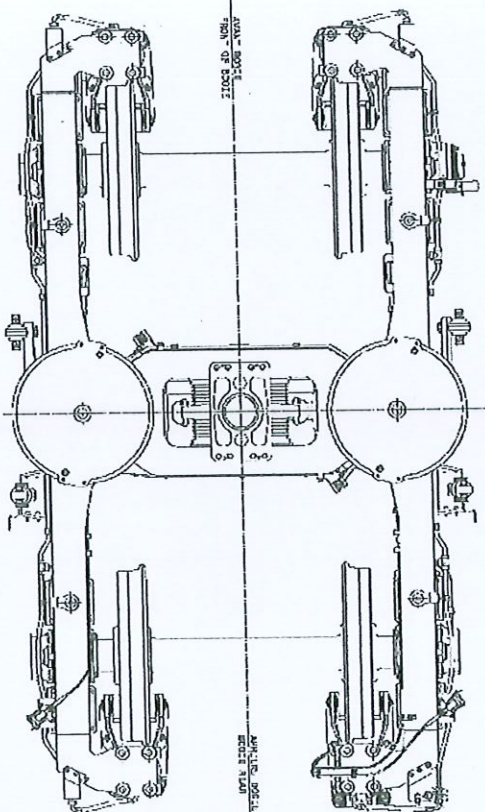
DATE

EDWARD

5/8/2024

OPERATOR STAMP

BFI-21



LEFT JACK LOAD

8453 Kg

SECONDARY SUSPENSION

MEASURED [mm]

SHIM THICK [mm]

DIM. WITH SHIM [mm]

THEORETICAL [mm]

586.04

+

4.00

=

590.04

MIN

MAX

592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]

0.57

THEORETICAL [mm]

MIN

MAX

1.00

THEORETICAL

MEASURED

WHEEL

DIAMETER [mm]

MIN

MAX

GAP PRIMARY

SUSPENSION [mm]

MIN

MAX

SHIM THICK [mm]

WHEEL ON

WHEEL [Kg]

Q3

5433

THEORETICAL

MEASURED

LOAD DIFFERENCE

ON FRONT AXLE [%]

MIN

MAX

0.00

1.40

Q

LOAD DIFFERENCE

ON REAR AXLE [%]

MIN

MAX

0.00

-0.81

Q

LOAD DIFFERENCE

FRONT AXLE

MIN

MAX

0.00

-0.24

Q

LOAD DIFFERENCE

AND REAR AXLE [%]

MIN

MAX

0.00

0.29

Q

LOAD DIFFERENCE

ON RAILS [%]

MIN

MAX

0.00

0.29

Q

LOAD DIFFERENCE

ON DIAGONAL

MIN

MAX

0.00

-1.11

Q

LOAD DIFFERENCE

ON WHEELS [%]

MIN

MAX

0.00

-1.11

Q

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 Marievale Road, Vosterkroon, Nigel, 1490

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE type TBINT**

DTR0009706802

SERIAL NUMBER **TBINT - 615**


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- Compliance certificate.....	Page 1/2	<input checked="" type="checkbox"/>
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- Products traceability.....	1 page	<input checked="" type="checkbox"/>
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CONSTRUCTOR APPROVAL

DATE	09 May 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	615		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	871		Alstom - Ubunye
Wheelset (Front)	AR000000177020	1644		Alstom - Ubunye
Axle	AR00000174678	101498	12300 44	Jinxi
Wheel (Right)	AR00000174670	058	11.22	Bonatrans
Wheel (Left)	AR000000174670	164	12.23	Bonatrans
Wheelset (Rear)	AR00000185203	1643		Alstom Ubunye
Axle	AR00000174678	102160	1230038	Jinxi
Wheel (Right)	AR00000174670	093	11.22	Bonatrans
Wheel (Left)	AR00000174670	162	12.23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2312161		TMT
Pneumatic suspension (Left)	AR00000176127	2312157		TMT
Brake unit with PB (Right rear)	AR00000174544	1761	05.23	WABTEC
Brake unit without PB (Right front)	AR00000175185	5300	05.23	WABTEC
Brake unit without PB (Left Front)	AR00000175185	5298	05.23	WABTEC
Brake unit without PB (left rear)	AR00000175185	5296	05.23	WABTEC

QC: 018
Revision: 1.0

PRESSING REPORT

DATE 5/8/2024	RESPONSABLE VALIDATION	PRASA INSTRUCTION SHEET: FAMILY:	LOAD TEST : PROJECT: PRASA
DATE VALIDATION			

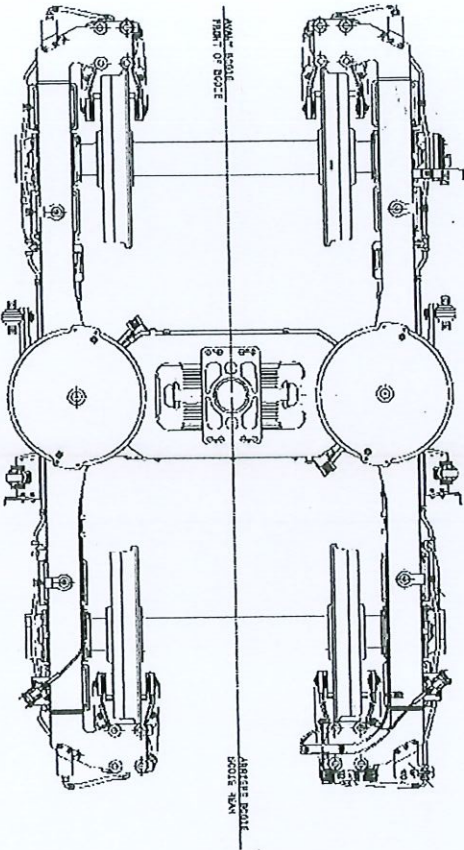
	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	38.78 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	4562

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

RIGHT JACK LOAD
6695 Kg

	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	38.93 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	4616

BOGIE SERIAL N°	615
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18370
COMPLETE BOGIE WEIGHT [Kg]	4616
OPERATOR	DATE
EDWARD	5/8/2024



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN -2.00 MAX 2.00	0.38 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.24 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.28 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00 MAX 2.00	0.07 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00 MAX 2.00	-0.31 ✓

OPERATOR STAMP
BF-21

LEFT JACK LOAD
6695 Kg

	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	38.97 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	4597

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.36	+	0.00	= 589.36
			MIN 587.50 MAX 590.00
DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			✓
-0.29			MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	38.16 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	4594