

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 - 577

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"/>

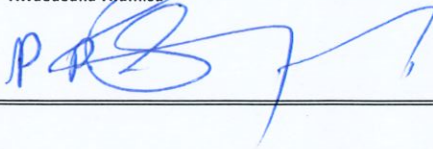
COMPLIANCE CERTIFICATE

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

19 February 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	DTR00009706803	577		Alstom - Abunye
Trailer Bogie Frame	AR000000176083	T0825		Alstom - Ubunye
Wheelset (Front)	AR0000000177020	T01519		Alstom - Ubunye
Axle	AR000000174678	101465	1230044	Jinxi
Wheel (Right)	AR000000174670	124	07-23	Bonatrans
Wheel (Left)	AR0000000174670	097	07-23	Bonatrans
Wheelset (Rear)	AR000000185203	T01520		Alstom Ubunye
Axle	AR000000174678	101463	1230044	Jinxi
Wheel (Right)	AR000000174670	062	07-23	Bonatrans
Wheel (Left)	AR000000174670	072	07-23	Bonatrans
Pneumatic suspension (Right)	AR000000176127	2310174		TMT
Pneumatic suspension (Left)	AR000000176127	2310134		TMT
Brake unit with PB (Right rear)	AR000000174544	1591	01-24	Wabtec
Brake unit without PB (Right front)	AR000000175185	4790	01-24	Wabtec
Brake unit without PB (Left Front)	AR000000175185	4796	01-24	Wabtec
Brake unit without PB (left rear)	AR000000175185	4799	01-24	Wabtec

QC: 018
Revision: 1.0

DATE
2/19/2024

DATE VALIDATION

RESPONSABLE VALIDATION

PRASA
ALSTOM URBAN

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	38.21 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	5392

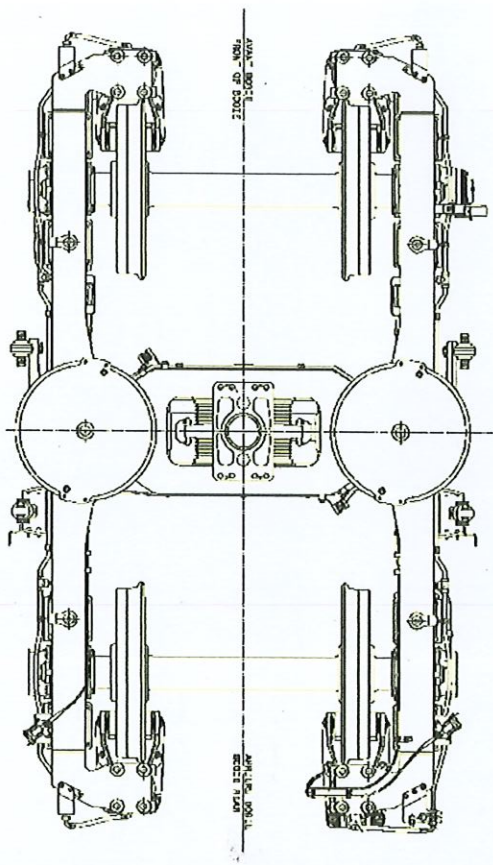
SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.24	+	1.00 =	MIN 590.00 MAX 592.50

RIGHT JACK LOAD
8453 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	38.42 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	5508

BOGIE SERIAL N°	577
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21862
COMPLETE BOGIE WEIGHT [Kg]	4623
OPERATOR	DATE
EDWARD	2/19/2024

OPERATOR STAMP
BFI-21



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN 0.00 MAX 0.00	1.18 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN 0.00 MAX 0.00	-0.61 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN 0.00 MAX 0.00	-0.16 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN 0.00 MAX 0.00	0.28 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN 0.00 MAX 0.00	-0.90 ✓

LEFT JACK LOAD
8453 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	38.65 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5521

SECONDARY SUSPENSION ✓			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.36	+	1.00 =	MIN 590.00 MAX 592.50

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	38.07 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5441

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	✓	THEORETICAL [mm]
-0.12		MIN -1.00 MAX 1.00



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 - 585


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	19 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	585		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	T0824		Poland -MZ
Wheelset (Front)	AR000000177020	T01521		Alstom - Ubunye
Axle	AR00000174678	114666	12176732	Jinxi
Wheel (Right)	AR00000174670	081	02-23	Bonatrans
Wheel (Left)	AR000000174670	103	02-23	Bonatrans
Wheelset (Rear)	AR00000185203	T01522		Alstom - Ubunye
Axle	AR00000174678	114535	12176733	Jinxi
Wheel (Right)	AR00000174670	115	02-23	Bonatrans
Wheel (Left)	AR00000174670	139	07-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2310166		TMT
Pneumatic suspension (Left)	AR00000176127	2310125		TMT
Brake unit with PB (Right rear)	AR00000174544	1597	01-24	Wabtec
Brake unit without PB (Right front)	AR00000175185	4817	01-24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	4812	01-24	Wabtec
Brake unit without PB (left rear)	AR00000175185	4804	01-24	Wabtec

QC: 018
Revision: 1.0

PRESSING REPORT

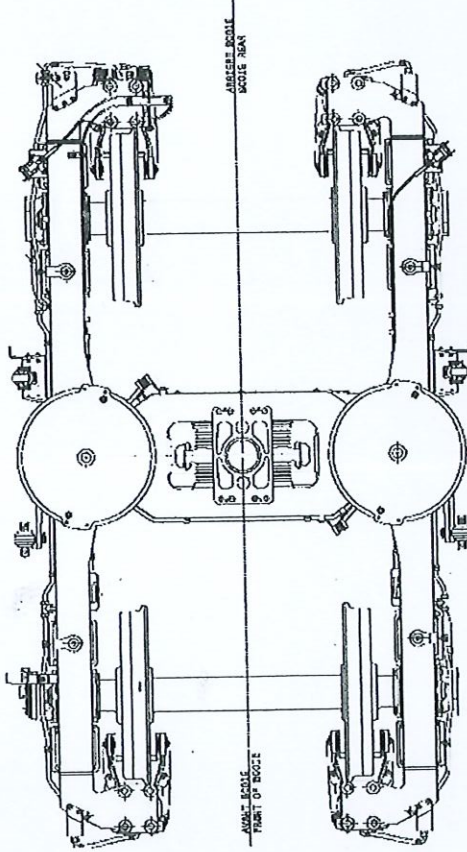
DATE VALIDATION	RESPONSABLE VALIDATION	PRASA	ALYON-BOUVINE
		INSTRUCTION SHEET:	
		FAMILY:	
		LOAD TEST :	TBINT
		PROJECT:	PRASA

	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]	Q4		4588

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
587.64	+	2.00	MIN 587.50 MAX 590.00
			589.64

RIGHT JACK LOAD	Kg
6695	

BOGIE SERIAL N°	585
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18340
COMPLETE BOGIE WEIGHT [Kg]	4604
OPERATOR	BAFANA
DATE	2/19/2024
OPERATOR STAMP	DC-BFI-6



	THEORETICAL		MEASURED
	MIN	MAX	
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN -2.00	MAX 2.00	0.58
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00	MAX 2.00	0.17
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN -2.00	MAX 2.00	-0.25
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00	MAX 2.00	0.38
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00	MAX 2.00	-0.20

LEFT JACK LOAD	Kg
6696	

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.98	+	0.00	MIN 587.50 MAX 590.00
			589.98

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	THEORETICAL [mm]
-0.34	MIN -1.00 MAX 1.00

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	39.79
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q1		4600