

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 - 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"/>

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	29 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 TBEXT	DTR0009706803	586		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T0841		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T01551		Alstom - Ubunye
Axle	AR00000174678	114525	12176733	Jinxi
Wheel (Right)	AR00000174670	078	04-23	Bonatrans
Wheel (Left)	AR000000174670	134	04-23	Bonatrans
Wheelset (Rear)	AR00000185203	T01550		Alstom Ubunye
Axle	AR00000174678	114884	12176732	Jinxi
Wheel (Right)	AR00000174670	107	04-23	Bonatrans
Wheel (Left)	AR00000174670	140	04-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2312102		TMT
Pneumatic suspension (Left)	AR00000176127	2401044		TMT
Brake unit with PB (Right rear)	AR00000174544	1613	02-24	Wabtec
Brake unit without PB (Right front)	AR00000175185	4870	02-24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5867	02-24	Wabtec
Brake unit without PB (left rear)	AR00000175185	4879	02-24	Wabtec

DATE
2/28/2024

DATE VALIDATION

RESPONSABLE VALIDATION

PRASA

INSTRUCTION SHEET:

FAMILY:

PRESSING REPORT

LOAD TEST : TBEXT

PROJECT:

	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY	MIN 33.00	37.42
SUSPENSION [mm]	MAX 39.00	
SHIM THICK [mm]		
WEIGHT ON		
WHEEL [Kg]	Q2	5481

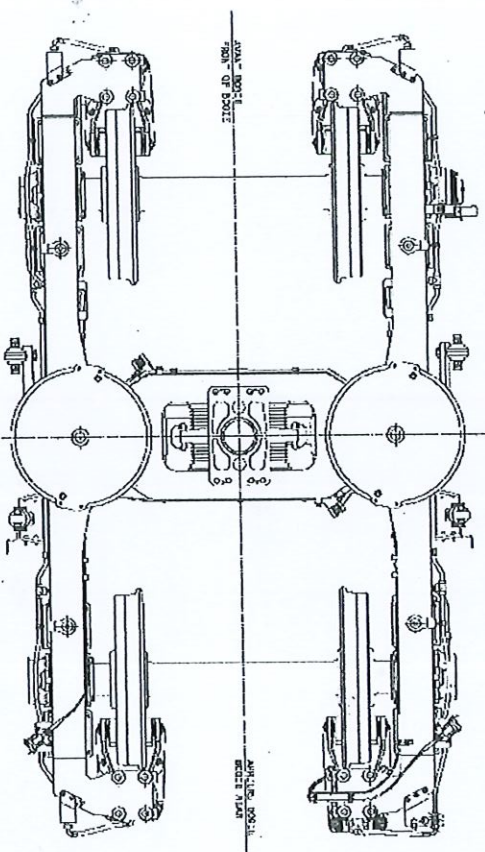
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.78	+	4.00	= 590.78
			MIN 590.00
			MAX 592.50

RIGHT JACK LOAD	
	8453 Kg

	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY	MIN 33.00	37.98
SUSPENSION [mm]	MAX 39.00	
SHIM THICK [mm]		
WEIGHT ON		
WHEEL [Kg]	Q4	5419

BOGIE SERIAL N°	586
BOGIE TYPE	TBEXT
BOGIE WEIGHT	
UNDER LOAD [Kg]	21900
COMPLETE	
BOGIE WEIGHT [Kg]	4646
OPERATOR	
EDWARD	DATE 2/28/2024

OPERATOR STAMP
BFI-21



LEFT JACK LOAD	
	8453 Kg

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.02	+	2.00	= 590.02
			MIN 590.00
			MAX 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			
	0.76		
		MIN -1.00	MAX 1.00

	THEORETICAL	MEASURED
LOAD DIFFERENCE	MIN 0.00	0.02
ON FRONT AXLE [%]	MAX 0.00	
LOAD DIFFERENCE	MIN 0.00	0.90
ON REAR AXLE [%]	MAX 0.00	
LOAD DIFFERENCE	MIN 0.00	0.13
FRONT AXLE	MAX 0.00	
AND REAR AXLE [%]		
LOAD DIFFERENCE	MIN 0.00	0.46
ON RAILS [%]	MAX 0.00	
LOAD DIFFERENCE	MIN 0.00	0.44
ON DIAGONAL	MAX 0.00	
WHEELS [%]		

	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY	MIN 33.00	37.69
SUSPENSION [mm]	MAX 39.00	
SHIM THICK [mm]		
WEIGHT ON		
WHEEL [Kg]	Q1	5483

	THEORETICAL	MEASURED
WHEEL	MIN	
DIAMETER [mm]	MAX	
GAP PRIMARY	MIN 33.00	37.30
SUSPENSION [mm]	MAX 39.00	
SHIM THICK [mm]		
WEIGHT ON		
WHEEL [Kg]	Q3	5517

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 - 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"/>
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CONSTRUCTOR APPROVAL

DATE	26 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	589		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	T0836		Poland -MZ
Wheelset (Front)	AR000000177020	T01539		Alstom - Ubunye
Axle	AR00000174678	102139	1230038	Jinxi
Wheel (Right)	AR00000174670	046	11-22	Bonatrans
Wheel (Left)	AR000000174670	013	07-23	Bonatrans
Wheelset (Rear)	AR00000185203	T01540		Alstom - Ubunye
Axle	AR00000174678	114524	12176733	Jinxi
Wheel (Right)	AR00000174670	090	07-23	Bonatrans
Wheel (Left)	AR00000174670	097	07-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2401105		TMT
Pneumatic suspension (Left)	AR00000176127	2401087		TMT
Brake unit with PB (Right rear)	AR00000174544	1604	02-24	Wabtec
Brake unit without PB (Right front)	AR00000175185	4832	02-24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	4835	02-24	Wabtec
Brake unit without PB (left rear)	AR00000175185	4836	02-24	Wabtec

QC: 018
Revision: 1.0

2/24/2024

DATE VALIDATION

RESPONSABLE VALIDATION

PRASA

INSTRUCTION SHEET:

FAMILY:

PRESSING REPORT

LOAD TEST : TBINT

PROJECT: PRASA

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	39.38 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	4557

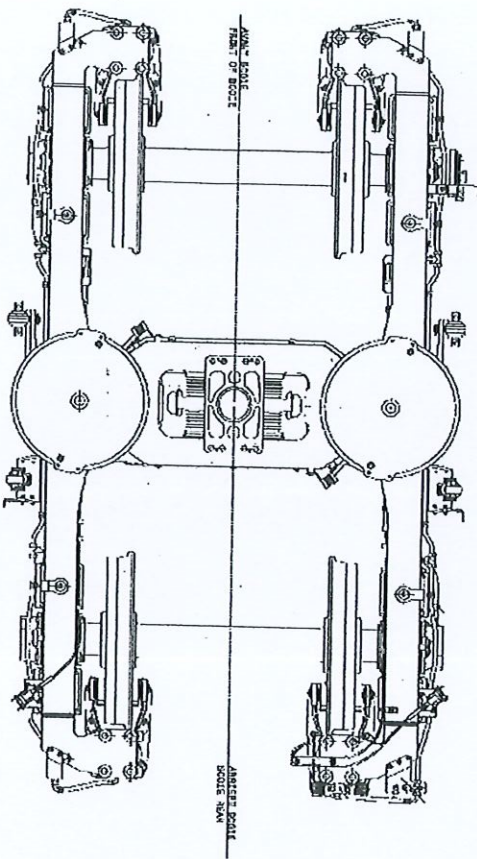
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
588.77	+	1.00	= 589.77
			MIN 587.50 MAX 590.00

RIGHT JACK LOAD
669.4 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	39.86 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	4537

BOGIE SERIAL N°	589
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18311
COMPLETE BOGIE WEIGHT [Kg]	4579
OPERATOR	DATE
BAFANA	2/24/2024

OPERATOR STAMP
BFI-21



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN -2.00 MAX 2.00	0.26 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN -2.00 MAX 2.00	1.07 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN -2.00 MAX 2.00	-0.19 ✓
LOAD DIFFERENCE ON RAILS [%]	MIN -2.00 MAX 2.00	0.67 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN -2.00 MAX 2.00	0.40 ✓

LEFT JACK LOAD
669.5 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	39.43 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	4561

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
589.99	+	0.00	= 589.99
			MIN 587.50 MAX 590.00
DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			Q1
			MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 34.50 MAX 40.50	38.78 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	4635