

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 - 606

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	25 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 TBEXT	DTR0009706803	606		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T0 883		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T0 1629		Alstom - Ubunye
Axle	AR00000174678	091	10.23	Jinxi
Wheel (Right)	AR00000174670	126	10.23	Bonatrans
Wheel (Left)	AR000000174670	114967	12176732	Bonatrans
Wheelset (Rear)	AR00000185203	T0 1630		Alstom Ubunye
Axle	AR00000174678	114558	12176733	Jinxi
Wheel (Right)	AR00000174670	095	10.23	Bonatrans
Wheel (Left)	AR00000174670	170	10.23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2307060		TMT
Pneumatic suspension (Left)	AR00000176127	2308095		TMT
Brake unit with PB (Right rear)	AR00000174544	1740	04.24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5244	04.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5247	04.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5242	04.24	Wabtec

PRESSING REPORT

DATE 4/24/2024	RESPONSABLE VALIDATION	PRASA	ALSTOM
DATE VALIDATION		INSTRUCTION SHEET:	
		FAMILY:	
		LOAD TEST :	TBEXT
		PROJECT:	

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 37.24
SHIM THICK [mm]		
WEIGHT ON WHEEL [KG]	Q2	5430

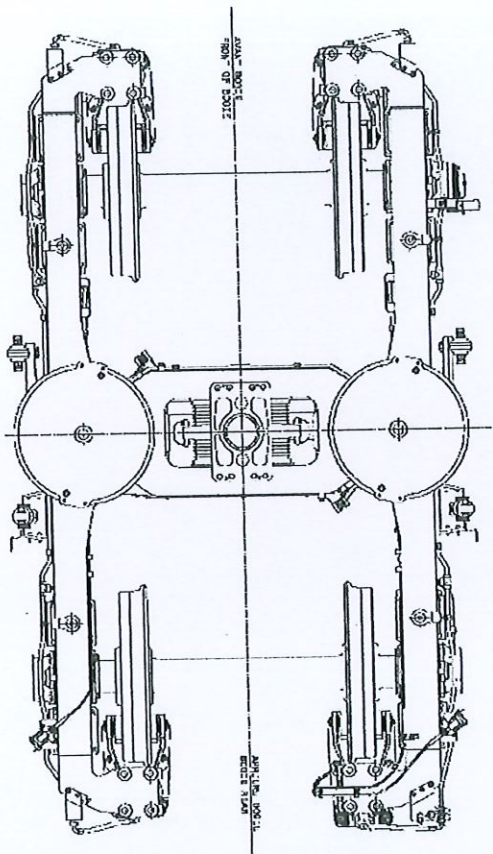
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
585.78	+	5.00	=
			590.78
			MIN MAX
			590.00 592.50

RIGHT JACK LOAD
8453 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 37.47
SHIM THICK [mm]		
WEIGHT ON WHEEL [KG]	Q4	5425

BOGIE SERIAL N°	606
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [KG]	21867
COMPLETE BOGIE WEIGHT [KG]	4621
OPERATOR	EDWARD
DATE	4/24/2024

OPERATOR STAMP
BFI-21



LEFT JACK LOAD
8453 Kg

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN MAX	0.00 0.41
LOAD DIFFERENCE ON REAR AXLE [%]	MIN MAX	0.00 1.02
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN MAX	0.00 -0.26
LOAD DIFFERENCE ON RAILS [%]	MIN MAX	0.00 0.72
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN MAX	0.00 0.31

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 37.19
SHIM THICK [mm]		
WEIGHT ON WHEEL [KG]	Q1	5475

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
586.61	+	4.00	=
			590.61
			MIN MAX
			590.00 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]			
			THEORETICAL [mm]
			MIN MAX
			-1.00 1.00
		0.17	

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN MAX	33.00 36.53
SHIM THICK [mm]		
WEIGHT ON WHEEL [KG]	Q3	5537

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 610

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	22 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	610		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	T0 876		Poland -MZ
Wheelset (Front)	AR000000177020	T0 1623		Alstom - Ubunye
Axle	AR00000174678	114929	12176732	Jinxi
Wheel (Right)	AR00000174670	056	10-23	Bonatrans
Wheel (Left)	AR000000174670	036	10-23	Bonatrans
Wheelset (Rear)	AR00000185203	T0 1624		Alstom - Ubunye
Axle	AR00000174678	114941	12176732	Jinxi
Wheel (Right)	AR00000174670	064	10-23	Bonatrans
Wheel (Left)	AR00000174670	061	10-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2311054		TMT
Pneumatic suspension (Left)	AR00000176127	2312042		TMT
Brake unit with PB (Right rear)	AR00000174544	1728	04-24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5204	04-24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5205	04-24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5206	04-24	Wabtec

PRESSING REPORT

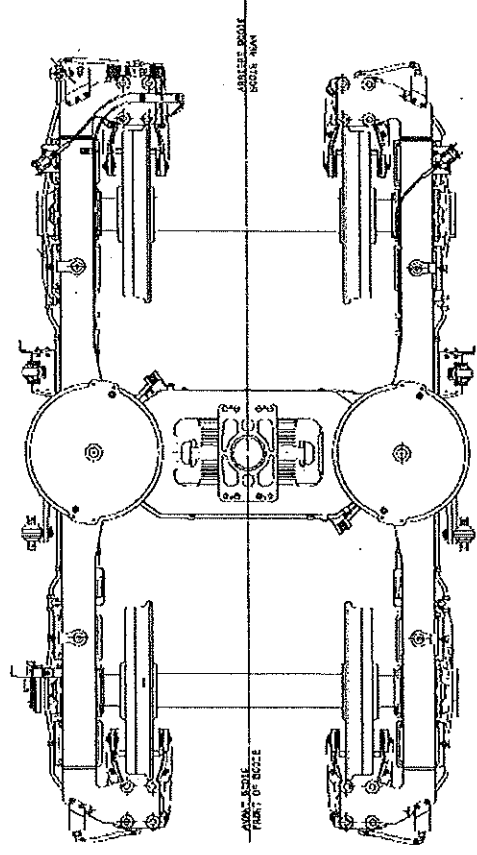
DATE 4/22/2024	RESPONSIBLE VALIDATION	LOAD TEST : TBINT	PROJECT: PRASA
DATE VALIDATION		INSTRUCTION SHEET:	
		FAMILY:	

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	34.50	40.50	37.61
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q4		4668

MEASURED [mm]	SECONDARY SUSPENSION		THEORETICAL [mm]
	SHIM THICK [mm]	DIM. WITH SHIM [mm]	
587.10	1.00	588.10	587.50
			590.00

RIGHT JACK LOAD
6695 Kg

BOGIE SERIAL N°	610
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18348
COMPLETE BOGIE WEIGHT [Kg]	4615
OPERATOR	BAFANA
DATE	4/22/2024
OPERATOR STAMP	DC-571-6



	THEORETICAL		MEASURED
	MIN	MAX	
LOAD DIFFERENCE ON FRONT AXLE [%]	-2.00	2.00	1.68
LOAD DIFFERENCE ON REAR AXLE [%]	-2.00	2.00	-1.53
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	-2.00	2.00	-0.67
LOAD DIFFERENCE ON RAILS [%]	-2.00	2.00	0.06
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	-2.00	2.00	-1.60

LEFT JACK LOAD
6695 Kg

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	34.50	40.50	37.80
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q1		4612

MEASURED [mm]	SECONDARY SUSPENSION		THEORETICAL [mm]
	SHIM THICK [mm]	DIM. WITH SHIM [mm]	
587.73	0.00	587.73	587.50
			590.00

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	0.37
THEORETICAL [mm]	-1.00
MAX	1.00

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	34.50	40.50	37.70
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q3		4527