

MANUFACTURER **ALSTOM** Ubunye
 Marievale Road, Vosterkroon, Nigel, 1490

CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIER TBINT**

DTR0009706802

SERIAL NUMBER **TBINT 641**

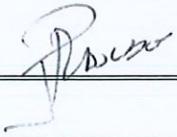
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COMPLIANCE CERTIFICATE

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	18 July 2024
NAME	Kwababana Hlumisa
VISA	

I - Deviation / Derogation

II - Bogie configuration

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**ALSTOM UBUNYE****PRODUCTS TRACEABILITY**

Products Designation	Product Reference	Serial Number	Batch or Date Manufactured	Supplier
Trailer Bogie TBINT	DTR0009706802	641		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	T0 942		Poland -MZ
Wheelset (Front)	AR000000177020	T0 01745		Alstom - Ubunye
Axle	AR00000174678	102170	D1230038	Jinxi
Wheel (Right)	AR00000174670	079	04-24	Bonatrans
Wheel (Left)	AR000000174670	103	04-24	Bonatrans
Wheelset (Rear)	AR00000185203	T0 01746		Alstom - Ubunye
Axle	AR00000174678	101521	D1230004	Jinxi
Wheel (Right)	AR00000174670	010	03-24	Bonatrans
Wheel (Left)	AR00000174670	078	04-24	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2310140		TMT
Pneumatic suspension (Left)	AR00000176127	2310206		TMT
Brake unit with PB (Right rear)	AR00000174544	1006	06-2024	Wabtec
Brake unit without PB (Right front)	AR00000175185	2963	06-2024	Wabtec
Brake unit without PB (Left Front)	AR00000175185	2962	06-2024	Wabtec
Brake unit without PB (left rear)	AR00000175185	2961	06-2024	Wabtec

PRESSING REPORT

DATE 7/12/2024	RESPONSABLE VALIDATION	PRASA	LOAD TEST : TBINT
DATE VALIDATION		INSTRUCTION SHEET:	PROJECT: PRASA
		FAMILY:	

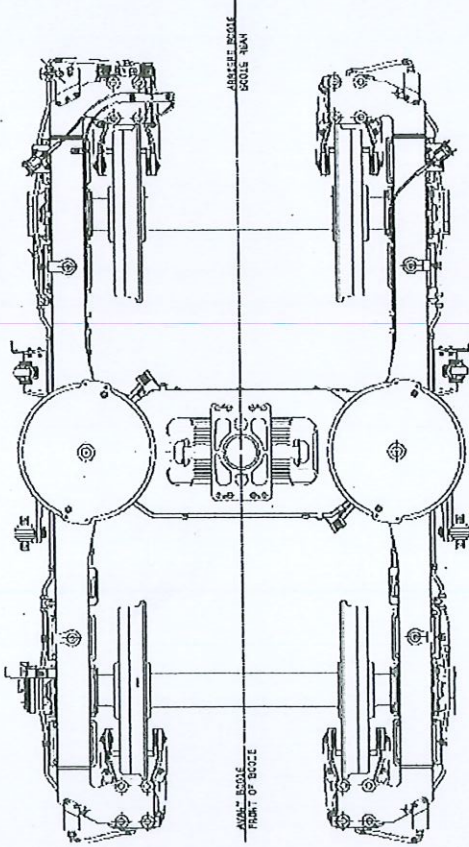
	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	37.58
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q4	4663

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
587.76	+	0.00	MIN 587.76 MAX 590.00

RIGHT JACK LOAD	6695	Kg
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BOGIE SERIAL N°	641
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18392
COMPLETE BOGIE WEIGHT [Kg]	4637
OPERATOR	EDWARD
DATE	7/12/2024

OPERATOR STAMP	BFI-21
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LEFT JACK LOAD	6694	Kg
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	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	36.71
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q3	4560

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
587.15	+	1.00	MIN 588.15 MAX 590.00

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	-0.39
	MIN -1.00 MAX 1.00

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	MIN 34.50	MAX 40.50	37.02
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]		Q1	4641

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CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE type TBEXT**

DTR0009706803

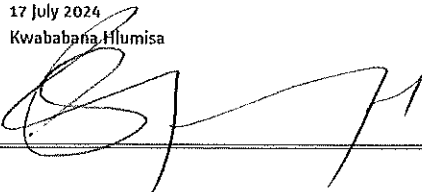
SERIAL NUMBER **TBEXT - 636**

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COMPLIANCE CERTIFICATE

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CONSTRUCTOR APPROVAL	
DATE	17 July 2024
NAME	Kwababara 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	636		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	943		Alstom - Ubunye
Wheelset (Front)	AR000000177020	1751		Alstom - Ubunye
Axle	AR00000174678	102132	1230038	Jinxi
Wheel (Right)	AR00000174670	078	04.24	Bonatrans
Wheel (Left)	AR000000174670	043	04.24	Bonatrans
Wheelset (Rear)	AR00000185203	1752		Alstom - Ubunye
Axle	AR00000174678	102114	1230038	Jinxi
Wheel (Right)	AR00000174670	029	04.24	Bonatrans
Wheel (Left)	AR00000174670	028	04.24	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2310078		TMT
Pneumatic suspension (Left)	AR00000176127	2311033		TMT
Brake unit with PB (Right rear)	AR00000174544	1007	06.24	Wabtec
Brake unit without PB (Right front)	AR00000175185	2976	06.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	2981	06.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	2980	06.24	Wabtec

QC: 018
Revision: 1.0

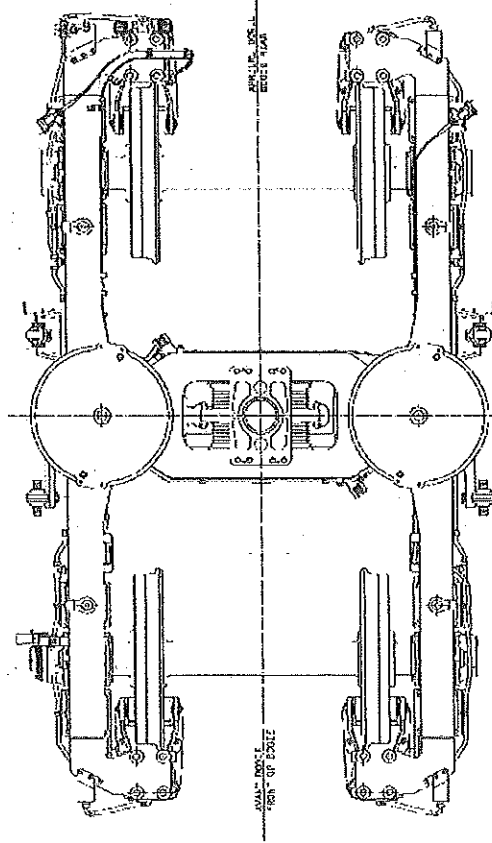
7/26/2024

DATE VALIDATION	RESPONSIBLE VALIDATION
DATE VALIDATION	RESPONSIBLE VALIDATION

SECONDARY SUSPENSION			D	THEORETICAL [mm]
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]		
536.11	+	4.00	H 590.11	MIN 590.00 MAX 592.50

SECONDARY SUSPENSION			D	THEORETICAL [mm]
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]		
536.11	+	4.00	H 590.11	MIN 590.00 MAX 592.50

RIGHT JACK LOAD	8453 Kg
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BOGIE SERIAL N°	636
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21934
COMPLETE BOGIE WEIGHT [Kg]	4697
OPERATOR	DATE
BAFANA	7/16/2024

OPERATOR STAMP

DC-271-6

	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE ON REAR AXLE [%]	MIN	0.00
	MAX	0.03
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE ON RAILS [%]	MIN	0.00
	MAX	0.00
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN	0.00
	MAX	0.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	35.30 ↙
SHIM THICK [mm]		
WEIGHT ON WHEEL [kg]	Q3	5454

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
585.92	+	5.00	MIN 590.00 MAX 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]		THEORETICAL [mm]
		MIN
		MAX
	-0.31	

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	35.60
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5547