

MANUFACTURER **ALSTOM** Ubunye
 Marievale Road, Vosterkroon, Nigel, 1490
CUSTOMER **Gibela**
CONTRACT
PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE TBEXT**
DTR00097068083
SERIAL NUMBER **TBEXT 613**

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 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 TBEXT	DTR0009706803	613		Alstom - Ubunye
Trailer Bogie Frame	AR000000176083	7897		Alstom - Ubunye
Wheelset (Front)	AR0000000177020	701661		Alstom - Ubunye
Axle	AR000000174678	102088	D1230038	Jinxi
Wheel (Right)	AR000000174670	076	07-23	Bonatrans
Wheel (Left)	AR0000000174670	074	07-23	Bonatrans
Wheelset (Rear)	AR000000185203	701662		Alstom - Ubunye
Axle	AR000000174678	102134	D1230038	Jinxi
Wheel (Right)	AR000000174670	071	07-23	Bonatrans
Wheel (Left)	AR000000174670	077	07-23	Bonatrans
Pneumatic suspension (Right)	AR000000176127	2312030		TMT
Pneumatic suspension (Left)	AR000000176127	2312028		TMT
Brake unit with PB (Right rear)	AR000000174544	1795	05-24	Wabtec
Brake unit without PB (Right front)	AR000000175185	5412	05-24	Wabtec
Brake unit without PB (Left Front)	AR000000175185	5410	05-24	Wabtec
Brake unit without PB (left rear)	AR000000175185	5411	05-24	Wabtec

PRESSING REPORT

DATE 5/21/2024	RESPONSABLE VALIDATION	PRASA	LOAD TEST : TBEXT
DATE VALIDATION		INSTRUCTION SHEET:	PROJECT:
		FAMILY:	

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	38.57 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q2	5427

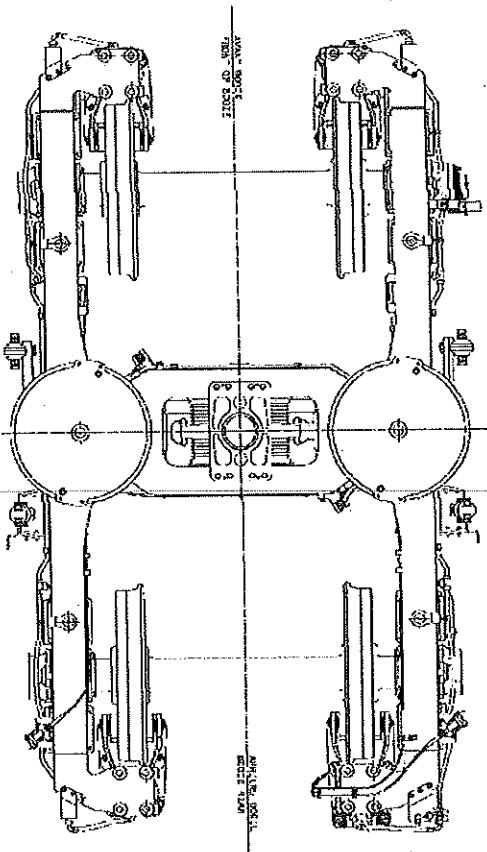
SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
587.21	+	3.00	= 590.21 MIN 590.00 MAX 592.50

RIGHT JACK LOAD
8452 Kg

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	38.54 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	5464

BOGIE SERIAL N°	613
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21904
COMPLETE BOGIE WEIGHT [Kg]	4653
OPERATOR	DATE
EDWARD	5/21/2024

OPERATOR STAMP
BF1-21



	THEORETICAL	MEASURED
LOAD DIFFERENCE ON FRONT AXLE [%]	MIN 0.00 MAX 0.00	1.06 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	MIN 0.00 MAX 0.00	0.06 ✓
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	0.56 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	MIN 0.00 MAX 0.00	-0.50 ✓

LEFT JACK LOAD
8453 Kg

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]	THEORETICAL [mm]
587.49	+	3.00	= 590.49 MIN 590.00 MAX 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	✓	THEORETICAL [mm]
-0.28		MIN -1.00 MAX 1.00

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.67 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	5543

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN MAX	
GAP PRIMARY SUSPENSION [mm]	MIN 33.00 MAX 39.00	37.34 ✓
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q3	5471

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CUSTOMER **Gibela**

CONTRACT

PROJECT **PRASA**

MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE **TRAILER BOGIE type TBINT**

DTR0009706802

SERIAL NUMBER **TBINT - 619**


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DATE	22 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	619		Alstom - Abunye
Trailer Bogie Frame	AR000000176083	896		Alstom - Ubunye
Wheelset (Front)	AR0000000177020	1657		Alstom - Ubunye
Axle	AR000000174678	101523	1230044	Jinxi
Wheel (Right)	AR000000174670	099	10.23	Bonatrans
Wheel (Left)	AR0000000174670	095	10.23	Bonatrans
Wheelset (Rear)	AR000000185203	1658		Alstom Ubunye
Axle	AR000000174678	108026	1232169	Jinxi
Wheel (Right)	AR000000174670	161	10.23	Bonatrans
Wheel (Left)	AR000000174670	148	10.23	Bonatrans
Pneumatic suspension (Right)	AR000000176127	2311130		TMT
Pneumatic suspension (Left)	AR000000176127	2311132		TMT
Brake unit with PB (Right rear)	AR000000174544	1789	05.24	WABTEC
Brake unit without PB (Right front)	AR000000175185	5390	05.24	WABTEC
Brake unit without PB (Left Front)	AR000000175185	5392	05.24	WABTEC
Brake unit without PB (left rear)	AR000000175185	5393	05.24	WABTEC

PRESSING REPORT

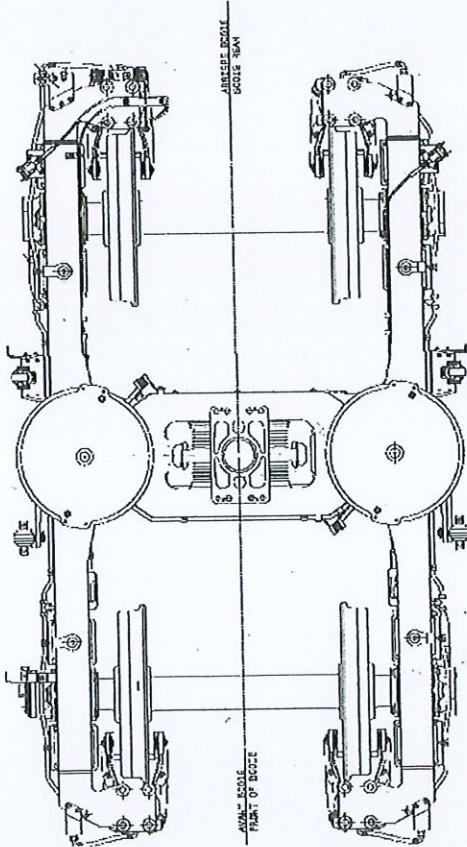
DATE 5/21/2024	RESPONSIBLE VALIDATION		PRASA	LOAD TEST : TBINT
DATE VALIDATION			INSTRUCTION SHEET:	PROJECT: PRASA
			FAMILY:	

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN	39.54
	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	40.50
	MAX	
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q4	4598

SECONDARY SUSPENSION			
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM[mm]	THEORETICAL [mm]
587.25	+	2.00	MIN
			587.50
		=	589.25
			MAX
			590.00

RIGHT JACK LOAD	
6694	Kg

BOGIE SERIAL N°	619
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18349
COMPLETE BOGIE WEIGHT [Kg]	4602
OPERATOR	EDWARD
DATE	5/21/2024
OPERATOR STAMP	BFI-21



LEFT JACK LOAD	
6694	Kg

SECONDARY SUSPENSION				THEORETICAL [mm]
MEASURED [mm]	SHIM THICK [mm]	DIM. WITH SHIM [mm]		
589.14	+	0.00	=	MIN
				587.50
				MAX
				590.00

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

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN	
	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	34.50
	MAX	40.50
SHIM THICK [mm]		38.79
WEIGHT ON WHEEL [Kg]	Q3	4595

	THEORETICAL	MEASURED
WHEEL DIAMETER [mm]	MIN	39.42 ✓
	MAX	
GAP PRIMARY SUSPENSION [mm]	MIN	40.50
	MAX	
SHIM THICK [mm]		
WEIGHT ON WHEEL [Kg]	Q1	4609