

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

MANUFACTURER'S DELIVERY DOCUMENT	
PRODUCT TYPE	TRAILER BOGIE TBEXT
	DTR0009706803
SERIAL NUMBER	TBEXT 605

**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	23 April 2024
NAME	Kwababana Hlumisa
VISA	

I - Deviation / Derogation

II - Bogie configuration

B Bogie index



Products Designation	Product Reference	Serial Number	Batch or Date Manufactured	Supplier
Trailer Bogie TBEXT	DTR0009706803	605		Alstom - Abunye
Trailer Bogie Frame	AR00000176083	T0 877		Alstom - Ubunye
Wheelset (Front)	AR000000177020	T0 1625		Alstom - Ubunye
Axle	AR00000174678	114527	12176733	Jinxi
Wheel (Right)	AR00000174670	192	12-23	Bonatrans
Wheel (Left)	AR000000174670	183	12-23	Bonatrans
Wheelset (Rear)	AR00000185203	T0 1626		Alstom Ubunye
Axle	AR00000174678	114531	12176733	Jinxi
Wheel (Right)	AR00000174670	195	12-23	Bonatrans
Wheel (Left)	AR00000174670	194	12-23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2311097		TMT
Pneumatic suspension (Left)	AR00000176127	2312043		TMT
Brake unit with PB (Right rear)	AR00000174544	1735	04-24	Wabtec
Brake unit without PB (Right front)	AR00000175185	5227	04-24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5229	04-24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5228	04-24	Wabtec

# PRESSING REPORT

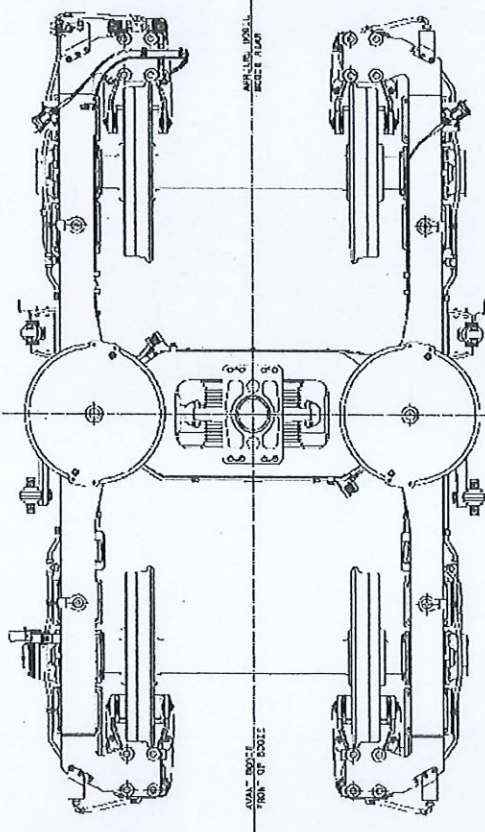
DATE 4/23/2024	PRASA	LOAD TEST : TBEXT
RESPONSIBLE VALIDATION	INSTRUCTION SHEET:	PROJECT:
	FAMILY:	

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	33.00	39.00	37.10 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q4		5527

MEASURED [mm]	SECONDARY SUSPENSION		THEORETICAL [mm]
	SHIM THICK [mm]	DIM. WITH SHIM [mm]	
587.06	+	3.00 = 590.06	MIN 590.00 MAX 592.50

RIGHT JACK LOAD  
8452 Kg

BOGIE SERIAL N°	605
BOGIE TYPE	TBEXT
BOGIE WEIGHT UNDER LOAD [Kg]	21900
COMPLETE BOGIE WEIGHT [Kg]	4673
OPERATOR	BAFANA
DATE	4/23/2024



LEFT JACK LOAD  
8453 Kg

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	33.00	39.00	35.90 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q3		5413

MEASURED [mm]	SECONDARY SUSPENSION		THEORETICAL [mm]
	SHIM THICK [mm]	DIM. WITH SHIM [mm]	
586.97	+	4.00 = 590.97	MIN 590.00 MAX 592.50

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]		THEORETICAL [mm]
MIN	MAX	
-0.91		MIN -1.00 MAX 1.00

OPERATOR STAMP  
DC-3Fi-6

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]			
GAP PRIMARY SUSPENSION [mm]	33.00	39.00	36.90 ✓
SHIM THICK [mm]			
WEIGHT ON WHEEL [Kg]	Q1		5578



ALSTOM UBUNYE

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

**CUSTOMER** Gibela

**CONTRACT**

**PROJECT** PRASA

MANUFACTURER'S DELIVERY DOCUMENT	
<b>PRODUCT TYPE</b>	TRAILER BOGIE type TBINT
	DTR0009706802
<b>SERIAL NUMBER</b>	TBINT - 608

**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	
<b>DATE</b>	17 April 2024
<b>NAME</b>	Kwababana Hlumisa
<b>VISA</b>	

**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	608		Alstom - Ubunye
Trailer Bogie Frame	AR00000176083	TO 864		Poland -MZ
Wheelset (Front)	AR000000177020	TO 1613		Alstom - Ubunye
Axle	AR00000174678	114663	12176732	Jinxi
Wheel (Right)	AR00000174670	060	10.23	Bonatrans
Wheel (Left)	AR000000174670	068	10.23	Bonatrans
Wheelset (Rear)	AR00000185203	TO 1614		Alstom - Ubunye
Axle	AR00000174678	114519	12376733	Jinxi
Wheel (Right)	AR00000174670	057	10.23	Bonatrans
Wheel (Left)	AR00000174670	055	10.23	Bonatrans
Pneumatic suspension (Right)	AR00000176127	2308109		TMT
Pneumatic suspension (Left)	AR00000176127	2309046		TMT
Brake unit with PB (Right rear)	AR00000174544	1715	04.24	Wabtec
Brake unit without PB (Right front.)	AR00000175185	5170	04.24	Wabtec
Brake unit without PB (Left Front)	AR00000175185	5173	04.24	Wabtec
Brake unit without PB (left rear)	AR00000175185	5171	04.24	Wabtec

# PRESSING REPORT

RESPONSIBLE VALIDATION

PRASA

INSTRUCTION SHEET:

FAMILY:

LOAD TEST : TBINT

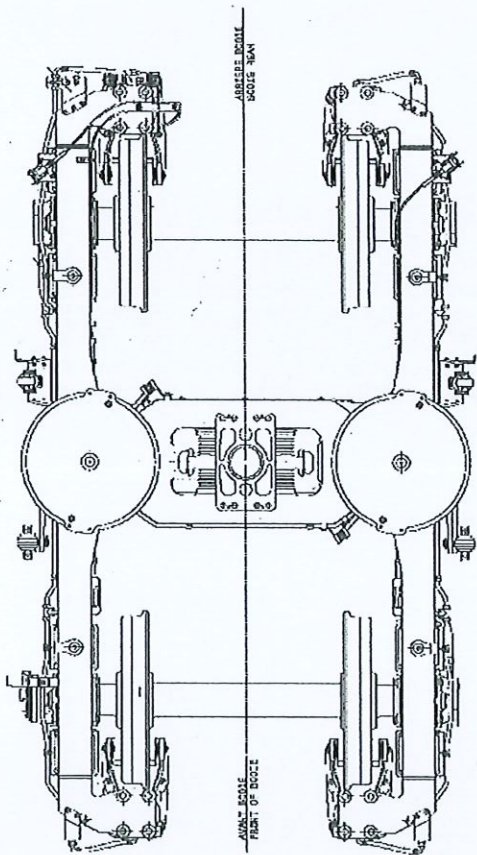
PROJECT: PRASA

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]	34.50	40.50	38.77 ✓
GAP PRIMARY SUSPENSION [mm]	34.50	40.50	✓
SHIM THICK [mm]	Q2		4552
WEIGHT ON WHEEL [Kg]	Q2		4552

MEASURED [mm]	SECONDARY SUSPENSION		THEORETICAL [mm]
	SHIM THICK [mm]	DIM. WITH SHIM [mm]	
588.08	+	1.00	587.50
	=	589.08	590.00

RIGHT JACK LOAD	Kg
6695	

BOGIE SERIAL N°	608
BOGIE TYPE	TBINT
BOGIE WEIGHT UNDER LOAD [Kg]	18363
COMPLETE BOGIE WEIGHT [Kg]	4619
OPERATOR	BAFANA
DATE	4/16/2024
OPERATOR STAMP	



LEFT JACK LOAD	Kg
6695	

	THEORETICAL		MEASURED
	MIN	MAX	
WHEEL DIAMETER [mm]	34.50	40.50	39.40 ✓
GAP PRIMARY SUSPENSION [mm]	34.50	40.50	✓
SHIM THICK [mm]	Q1		4610
WEIGHT ON WHEEL [Kg]	Q1		4610

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

DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	✓
-0.90	
THEORETICAL [mm]	
MIN	-1.00
MAX	1.00

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
34.50	34.50	40.50	38.71 ✓
GAP PRIMARY SUSPENSION [mm]	34.50	40.50	✓
SHIM THICK [mm]	Q4		4628
WEIGHT ON WHEEL [Kg]	Q4		4628

	THEORETICAL		MEASURED
	MIN	MAX	
LOAD DIFFERENCE ON FRONT AXLE [%]	-2.00	2.00	0.63 ✓
LOAD DIFFERENCE ON REAR AXLE [%]	-2.00	2.00	-0.60 ✓
LOAD DIFFERENCE FRONT AXLE AND REAR AXLE [%]	-2.00	2.00	-0.21 ✓
LOAD DIFFERENCE ON RAILS [%]	-2.00	2.00	0.02 ✓
LOAD DIFFERENCE ON DIAGONAL WHEELS [%]	-2.00	2.00	-0.62 ✓

WHEEL DIAMETER [mm]	THEORETICAL		MEASURED
	MIN	MAX	
34.50	34.50	40.50	38.80 ✓
GAP PRIMARY SUSPENSION [mm]	34.50	40.50	✓
SHIM THICK [mm]	Q3		4573
WEIGHT ON WHEEL [Kg]	Q3		4573