

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

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	PPP /

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TRANSPORT

DELIVERY STATUS

PRASA

BOGIE

TBEXT - 586

I - Deviation / Derogation				
		-		
II - Bogie configuration				
B Bogie index				
			6	



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

QC: 018 Revision: 1.0

PRESSING REPORT

PROJECT: LOAD TEST:

TBEXT

DATE VALIDATION	20	RESPONSABLE VALIDATION		PRASA PLAT TO DE JUNE INSTRUCTION SHEET:
			74	FAMILY:
	THEORETICAL	MEASURED		SECONDARY SUSPENSION
	MIN		MEASURED [mm]	SHIM THICK [mm]
WHEEL	141114			
DIAMETER [mm]	MAX		586.78	+
CAR BRIMARY	MIN 33.00			
		37.42		
SUSPENSION [mm]	MAX 39.00			

¢

DATE

	SEC	SECONDARY SUSPENSION	PENSION	0		
D [mm]	SHIM THICK [mm]		DIM. WIT	DIM. WITH SHIM[mm] THEORETICAL [mm]	THEORET	ICAL [mm]
					MIN	590.00
86.78	+	4.00	u	590.78	MAX	592.50
86.78	+ 14	8	и.	590.78	MIN	590.00

RIGHT JACK LOAD	4.00		IM THICK [mm]	SECONDARY SUSPENSION
K LOAD	u		DIM. WITH SHIM[mm] THEORETICAL [m	SPENSION
	590.76	100	[mm]	G
	MAX	MIN	THEORET	
	592	590	ICAL [n	

WEIGHT ON SHIM THICK [mm]

22

5481

8453

š

WEIGHT ON	SHIM THICK [mm]	GAP PRIMARY SUSPENSION [mm]	WHEEL DIAMETER [mm]	
	-	MAX N	MAX	THEO
2		33.00		THEORETICAL
5419		37.98		MEASURED
		3		

LOAD DIFFERENCE
FRONT AXLE
AND REAR AXLE [%]

MAX MIN

0.00 0.00

0.13

3

LOAD DIFFERENCE ON REAR AXLE [%]

MAX

0.00

MIN

0.00

0.90

ON FRONT AXLE [%] MAX

MIN

0.00 0.00

> 0.02 MEASURED

B

THEORETICAL

LOAD DIFFERENCE
ON DIAGONAL
WHEELS [%]

MAX

MIN

0.00

0.44

S

LOAD DIFFERENCE ON RAILS [%]

MAX

0.00

0.46

MIN

BOGIE WEIGHT UNDER LOAD [Kg]

21900

BOGIE TYPE

TBEXT

BOGIE SERIAL N°

586

COMPLETE
BOGIE WEIGHT [Kg]

4646

OPERATOR

EDWARD

2/28/2024

DATE

OPERATOR STAMP

BFI-21

LEFT JACK LOAD

8453

₹ G

WHEE	1.00	MAX			0.76	ı	
WEIG	-1.00	MIN					
MIHS	CAL [mm]	THEORETICAL [mm]	B	HEIGHTS [mm]	ND LEFT SUSPENSION	DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]	
SUSP							-
GAP F	592.50	MAX	20.02	ji U	+ 2.00	588.02	
INIMIG	590.00	MIN	3	3			
WHEE	CAL [mm]	THEORETIC	[mm]	DIM. WITH SHIM [mm] THEORETICAL [mm]	SHIM THICK [mm]	MEASURED [mm] S	
			4	SPENSION	SECONDARY SUSPENSION		

WEIGHT ON

2

5483

1

SHIM THICK [mm]

WHEEL [mm]

MAX NIN.

MIN

THEORETICAL

MEASURED

GAP PRIMARY SUSPENSION [mm]

MAX

39.00 33.00

37.69

1.00 WHEEL [Kg]	RETICAL [mm] SHIM THICK [mm]	SUSPENSION [mm] MAX	592.50 GAP PRIMARY MI	590.00 DIAMETER [mm] MA		
Q.	2	m] MAX 39.00	MIN 33.00	MAX	MIN	171000000000000000000000000000000000000
5517			37.30			



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ALSTOM Ubunye

Marievale Road, Vosterkroon, Nigel, 1490

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CONTRACT

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MANUFACTURER'S DELIVERY DOCUMENT

PRODUCT TYPE

TRAILER BOGIE type TBINT

DTR0009706802

SERIAL NUMBER

TBINT - 589

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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
26 February 2024
Kwababana Hlumisa

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1/2

DELIVERY STATUS

PRASA BOGIE

TBINT - 589

I - Bagie configuration B Bagie index				
8 Bogie index	- Deviation / Derogation			
8 Bogie index				
8 Bogie index				
B Bogie index				
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B Bogie index				
B Bogie index				
	l - 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

			DATE VALIDATION		2/24/2024
			RESPONSABLE VALIDATION		
FAWILY:	CARTIN	INSTRUCTION SHEET:	PRASA NEW WORLDOWN		
PROJECT: PRASA	LOAD IEST: TRINT		I NEGOTING DEL COL	DRESSING DEBORT	

	THEO	THEORETICAL	ATTACIONES.	
WHEEL	MIN			
DIAMETER [mm]	MAX			
GAP PRIMARY	MIN	34.50		
SUSPENSION [mm]	MAX	40.50	39.38	S
SHIM THICK [mm]				
WEIGHT ON		Q2	4557	

	SECON	SECONDARY SUSPENSION	PENSION	8
MEASURED [mm]	SHIM THICK [mm]		DIM. WITH SHIM[mm] THEORETICAL [mm	nm] TH
				1
588.77	+	1.00	590 7	MIN
				MAX

	RIGH
6694	RIGHT JACK LOAD
χ _α	AB

### THEORETICAL WHEEL MIN DIAMETER [mm] MAX GAP PRIMARY MIN 34.50 SUSPENSION [mm] MAX 40.50 SHIM THICK [mm] WEIGHT ON WEIGHT ON WHEEL [Kg] Q4	THEORETE MIN MAX MAX MAX Q4
34.50 40.50	80 80
	MEASURED 39.86



COMPLETE BOGIE WEIGHT [Kg]

4579

OPERATOR BAFANA

DATE 2/24/2024

BFI-21

OPERATOR STAMP

BOGIE WEIGHT UNDER LOAD [Kg]

18311

BOGIE TYPE

TBINT

BOGIE SERIAL Nº

589

UOAD DIFFERENCE MIN ON DIAGONAL MAX	ON RAILS [%] MAX	FRONT AXLE AND REAR AXLE [%]	ON REAR AXLE [%] M	ON FRONT AXLE [%] MAX	
MIN -2.00 MAX 2.00	MIN -2.00 MAX 2.00	MIN -2.00 MAX 2.00	MIN -2.00 MAX 2.00	MIN -2.00 MAX 2.00	THEORETICAL
0.40	0.67	-0.19	1.07	0.26	MEASURED
S	B	8	8	S	ŒĐ

	WEIGHT ON	SHIM THICK [mm]	SUSPENSION [mm]	GAP PRIMARY	DIAMETER [mm]	WHEEL		
	CJ		MAX 40.50	MIN 34.50	MAX	MIN	THEORETICAL	
	4581		39.43				MEASURED	
-	- 1		3					

		DIFFERENCE IN RIGH		589.99	MEASURED [mm]			
	-0.22	DIFFERENCE IN RIGHT AND LEFT SUSPENSION HEIGHTS [mm]		+ 0.00	SHIM THICK [mm]	SECONDARY SUSPENSION	66	LEFT JACK LOAD
		N HEIGHTS [mm] ∅		11 529 99	DIM. WITH SHIM [mm] THEORETICAL [mm]	JSPENSION &	6695 Kg	CK LOAD
MAX 1.00	MIN -1.00	THEORETICAL [mm]	MAX 590.00	MIN 587.50	THEORETICAL [mm]			

1.00	MAX		Ville
-1.00	MIN		-0.22
[mm]	THEORETICAL [mm]	9	TELL SOSPENSION HEIGHTS [mm]

	THEORETICAL	MEASURED
WHEEL	NIM	
DIAMETER [mm]	MAX	
GAP PRIMARY	MIN 34.50	
SUSPENSION [mm]	MAX 40.50	38.78
SHIM THICK [mm]		
WHEEL [Kg]	Q	4635