

GIBELO

2024-06-16

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PRASA PROJECT




SELF INSPECTION SHEET

CONFIDENTIAL INFORMATION



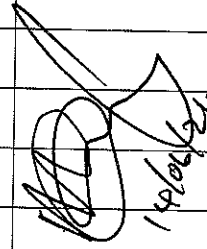
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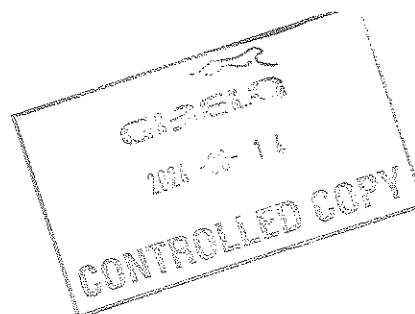
APPLICATION REFERENCE

MOUNTING	DESCRIPTION	STATION	CAR TYPE						WORK INSTRUCTION	SAFETY ? 
			TC1	M4	M1	M2	M3	TC2		
<input type="checkbox"/>	DTR3-PROCE-14	LEVELLING, WEIGHTING AND BALANCING M CAR	FT1140	<input checked="" type="checkbox"/>	1	1	1		PRA.FT1140.04	YES
<input type="checkbox"/>	DTR3-PROCE-14	LEVELLING, WEIGHTING AND BALANCING TC CAR	FT1140	1				1	PRA.FT1140.05	YES
<input type="checkbox"/>	DTR3-PROCE-17	LEVELLING, WEIGHTING AND BALANCING TC CAR	FT1140	1	1	1	1	1	PRA.FT1140.05	YES
<input type="checkbox"/>	DTR3-PROCE-17	LEVELLING, WEIGHTING AND BALANCING TC CAR	FT1140	1	1	1	1	1	PRA.FT1140.05	YES
<input type="checkbox"/>										
<input type="checkbox"/>										
<input type="checkbox"/>										

REV	DATE	MODIFICATION CONTENT	RESPONSIBLE	NAME	DATE
7	2/11/2020	UPDATE OF AIR TIGHTNESS TEST TIME FROM 4 MIN TO 5 MIN. ADD PANTOGRAPH AIR TIGHTNESS.	APPROVER	GIVEN SILOWA	2/11/2020
			CHECKER	SIMON MOKOENA	2/11/2020
			COMPILER	COMFORT MALATJI	2/11/2020
8	9/13/2021	ADDING GAUGE MEASUREMENT CHECK ON THE SI.	APPROVER	MAKOFANE LUCY	9/13/2021
			CHECKER	RATAU EDISON	9/13/2021
			COMPILER	TSAKANI KHOSA	9/13/2021
9	5/31/2022	pressure valve (APV) Isolation	APPROVER	MAKHURUPETJI THABANG	5/31/2022
			CHECKER	HAZEL MGIBA	5/31/2022
			COMPILER	RATAU EDISON	5/31/2021

TUE	CAR	OPERATOR NAME	DATE	SELF INSPECTION NUMBER	PAGES
TS 230	M4	PRA/4e	14/06/24	SI.FT1140.52	01/08

	SELF INSPECTION INDUSTRIAL QUALITY		Rev:09	Project: PRASA	SI.FT1140.52						
			Date: 5/31/2022								
Car:	NGR:		Work Station FT1140								
 Safety Related											
I - Document and Instrument Control											
I.1 - Documents control											
Document	TC1	M1	M2	M3	M4	TC2	Revision	Remark	OK	Not OK	Signature/Date
PRA.FT1140.04											
PRA.FT1140.05					X				✓		<i>[Signature]</i> 14/06/24
PRA.FT1140.05											
I.2 - Instruments Control - Monitoring and Measuring Instrument Control (Used for all instrument with calibration needed)											
Instruments description	Serial number		Calibration or Verification Validation Date		OK	Not OK	Signature/Date				
Measuring tape	GIBTA 0276		26/10/23-26/10/24		✓		 14/06/24				
Vernier Calliper	GIBVR 0056		27/02/24-27/02/24		✓						
Torque Wrench 35Nm	D2511023		19/12/23-19/12/24		✓						
Torque Wrench 150Nm	D28622009		19/12/23-19/12/24		✓						
Torque Wrench 320Nm	A9650027		21/12/23-21/12/24		✓						





SELF INSPECTION INDUSTRIAL QUALITY

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Date:

5/31/2022

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II - Self Inspection - Items to Check

II.1 - Items to Check

Item	Picture/Sketch	Description	Criteria/Record	OK	Not OK	Signature/Date								
01		Ensure that the average pressure valve (APV) is isolated by capping the two input pipes at the fittings installing the blanking fitting on the pipes highlighted		✓		14/06/24								
02		Check underframe pipe system Air tightness. Test performance according to WI/PRA/FT1130.15.	The test was performed and no leak was observed. Initial pressure (IP): 11.60 bar Final pressure (FP): 10.92 bar FP - IP = 0.68 bar APPROVAL CRITERIA: After 5 minutes the pressure cannot drops more than 0,2 bar	✓		14/06/24								
03		Movement performed at least 50m to shudder the car. And position on the leveled load coil, with wheels on the center.		✓		14/06/24								
04		Measurement inspection was done with car on condition AWD and the rail levelled. (The load cells system must be levelled and calibrated)	Calibration Validation Date 19.12.2023	✓		14/06/24								
05		In case of the equipments not installed, equivalent weight of the item should be added in the same place to simulate the equipment (Any simulated weight, add on pending list)	<table><thead><tr><th>EQUIPMENT DESCRIPTION</th><th>WEIGHT (kg)</th></tr></thead><tbody><tr><td>CARGOWAY</td><td>360</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>	EQUIPMENT DESCRIPTION	WEIGHT (kg)	CARGOWAY	360					✓		14/06/24
EQUIPMENT DESCRIPTION	WEIGHT (kg)													
CARGOWAY	360													
06		The pressure difference between air spring on each bogie when raise the pressure was maintained < 0.3 bar.		✓		14/06/24								
07		Measurement recorded with empty suspension and loaded are on conformity with tolerances of this project.		✓		14/06/24								
08		All levelling measurements are according to the reference. (Values out of reference must be recorded on "Description of defects")		✓		14/06/24								

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2024-06-14

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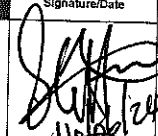
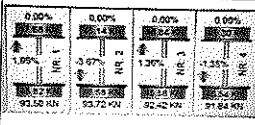
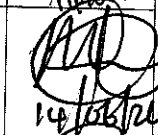
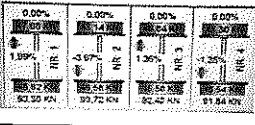
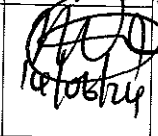
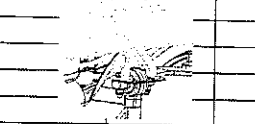
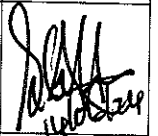

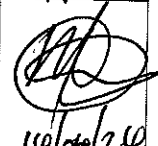
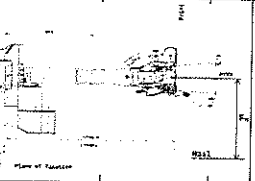
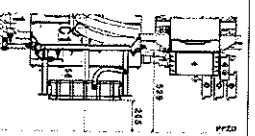
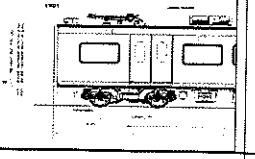
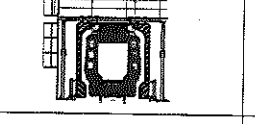
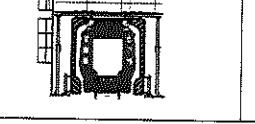

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Item	Picture/Sketch	Description	Offer/Record	OK	Signature/Date
09		Check that the leveling rods are torqued and have torque marker.		✓	 14/06/24
10		The difference of weight between the left and right wheels of each axis, must be $\leq 4\%$. (Verify on the T&C equipment if all arrows are in green).		✓	 14/06/24
11		Remove the car, move back onto the load cells and repeat the step 09. Confirm if both are in the tolerance of $\leq 4\%$.		✓	 14/06/24
12		1 - Record shims thickness used on rod. 2 - All screws were torqued and have torque marker.	THICKNESS (mm) I 00 II 00 III 00 IV 00	✓	 14/06/24
13		Pivot fixation	1- M20 x 90 screws with application of torque according to PRA.FT1140.04 / 05	✓	 14/06/24
14		FOR TC CARS F= Height of the center of Automatic coupler F = 895mm (+5 / -10mm) (Using levelled rail)	TC CAB #1= _____ mm		M/A
15		FOR TC CARS Height of Eurobalise Antenna = 205mm (+/-10mm) (Using levelled rail)	TC CAB #1= _____ mm		M/A
16		Check pantograph piping air tightness. Test performance according to VIT PRA.FT1140.17.	The test was performed and no leak was observed. -Roof piping connection fittings. -Roof piping connection fittings (Roof arch and door trimming)		M/A
17		Pantograph does not come in contact with the higher height gauge when passing through.	No Contact with Pantograph and Gauge -GO Contact with Pantograph and Gauge - NO GO		M/A
18		Car does not come into contact with the gauge.	No Contact with Car and Gauge -GO Contact with Car and Gauge - NO GO	✓	 14/06/24



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DRAFT TO MEASUREMENTS DURING LEVELLING (ALL UNITS MUST BE IN mm/bar/kg)

DESCRIPTION	TOLERANCE		LEFT SIDE						RIGHT SIDE						
			6	5	4	3	2	1	1	2	3	4	5	6	
AIR SPRING HEIGHT (EMPTY)	N/A	A ^{II}													A ^I
AIR SPRING HEIGHT (FULL)	min 254 max 261	A ^{II}						257	259						A ^I
FLOOR COVERING HEIGHT	min 1096 max 1116	E ^{II}						1114	1105						E ^I
AIR SPRING PRESSURE	≤ 0.3 (Q ₁ - Q)	C ^{II}						288	278						C ^I
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D ³													D ¹
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D ⁴													D ²
PIVOT VERTICAL GAP	min 25 max 32	K ^{II}													K ^I
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (J _I - J)	J ^{II}													J ^I
QTY OF TURNS OF LEVELLING ROD	N/A	X ^{II}													X ^I
SHIMS OF ANTI-ROLL BAR	N/A	Y ^{II}													Y ^I
DESCRIPTION	TOLERANCE		6	5	4	3	2	1	1	2	3	4	5	6	
AIR SPRING HEIGHT (EMPTY)	N/A	A ^{III}													A ^{IV}
AIR SPRING HEIGHT (FULL)	min 254 max 261	A ^{III}						257	260						A ^{IV}
FLOOR COVERING HEIGHT	min 1096 max 1116	E ^{III}						1107	1104						E ^{IV}
AIR SPRING PRESSURE	≤ 0.3 (Q _v - Q _a)	C ^{III}						277	287						C ^{IV}
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D ⁵													D ⁷
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D ⁶													D ⁸
PIVOT VERTICAL GAP	min 25 max 32	K ^{III}													K ^{IV}
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (J _{IV} - J _{II})	J ^{III}													J ^{IV}
QTY OF TURNS OF LEVELLING ROD	N/A	X ^{III}													X ^{IV}
SHIMS OF ANTI-ROLL BAR	N/A	Y ^{III}													Y ^{IV}

COMPARE EACH TENTATIVE WITH THE TOLERANCE AND IDENTIFY EACH MEASURE AS BELOW

GOOD	LOWER	HIGHER
✓	↓	↑

WEIGHT COMPENSATION

EQUIPMENT

WEIGHT

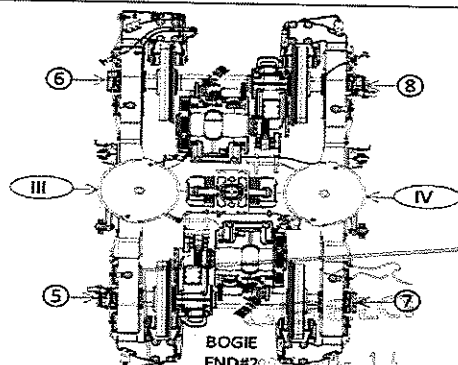
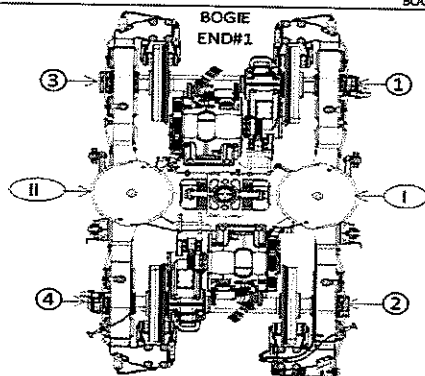
EQUIPMENT

WEIGHT

SECONDARY MEASUREMENTS (ONLY TC CARS)

AUTOMATIC COUPLER HEIGHT

ANTENNA HEIGHT



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DRAFT TO MEASUREMENTS DURING LEVELLING (ALL UNITS MUST BE IN mm/bar/kg)

		END#1												
DESCRIPTION	TOLERANCE	LEFT SIDE						RIGHT SIDE						
		6	5	4	3	2	1	1	2	3	4	5	6	
AIR SPRING HEIGHT (EMPTY)	N/A	A`II												A`I
AIR SPRING HEIGHT (FULL)	min 254 max 261	AII												Ai
FLOOR COVERING HEIGHT	min 1096 max 1116	EII												Ei
AIR SPRING PRESSURE	≤ 0.3 (CiI - Ci)	CII												Ci
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D3												D1
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D4												D2
PIVOT VERTICAL GAP	min 25 max 32	KII												Ki
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (JiI - Ji)	JII												Ji
QTY OF TURNS OF LEVELLING ROD	N/A	XII												Xi
SHIMS OF ANTI-ROLL BAR	N/A	YII												Yi
DESCRIPTION	TOLERANCE		6	5	4	3	2	1	1	2	3	4	5	6
AIR SPRING HEIGHT (EMPTY)	N/A	A`III												A`IV
AIR SPRING HEIGHT (FULL)	min 254 max 261	AIII												Aiv
FLOOR COVERING HEIGHT	min 1096 max 1116	EIII												Env
AIR SPRING PRESSURE	≤ 0.3 (CiV - CiII)	CIII												Civ
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D5												D7
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	D6												D8
PIVOT VERTICAL GAP	min 25 max 32	KIII												Kiv
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (Jiv - JIII)	JIII												Jiv
QTY OF TURNS OF LEVELLING ROD	N/A	XIII												Xiv
SHIMS OF ANTI-ROLL BAR	N/A	YIII												Yiv
		LEFT SIDE						RIGHT SIDE						

COMPARE EACH TENTATIVE WITH THE TOLERANCE AND IDENTIFY EACH MEASURE AS BELOW

GOOD	LOWER	HIGHER
✓	↓	↑

WEIGHT COMPENSATION

EQUIPMENT

WEIGHT

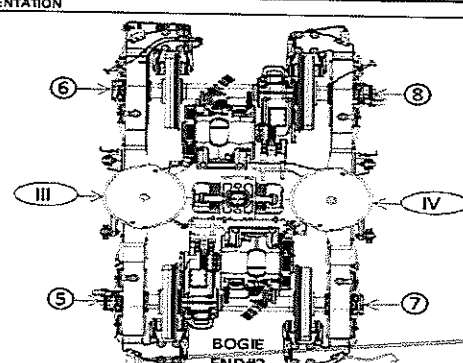
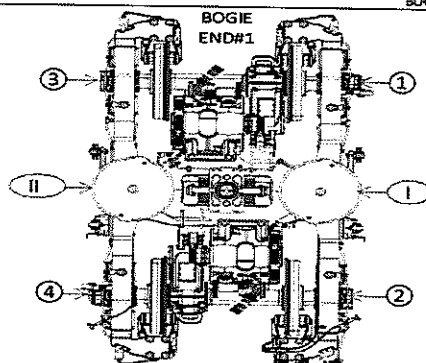
EQUIPMENT

WEIGHT

SECONDARY MEASUREMENTS (ONLY TC CARS)

AUTOMATIC COUPLER HEIGHT

ANTENNA HEIGHT



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2024-03-14

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Table 1 - Reference Values and Measurement Tolerances for the Car Levelling.

ITEM		THEORETICAL VALUES													
		TCL CAR		M4 CAR		M3 CAR		M2 CAR		M3 CAR		M2 CAR		TCL CAR	
		TBext	TBint	MB1	MB2	MB1	MB2	MB1	MB2	MB1	MB2	MB1	MB2	TBext	TBint
Pivot lateral stop gap difference [mm]	Fig. 4	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4	≤ 4
Air Spring height [mm]	Fig. 5	255 ⁺⁶ ₋₄	255 ⁺⁶ ₋₄	255 ⁺⁶ ₋₄	255 ⁺⁶ ₋₄	255 ⁺⁶ ₋₄	255 ⁺⁶ ₋₄	255 ⁺⁶ ₋₄	255 ⁺⁶ ₋₄	255 ⁺⁶ ₋₄	255 ⁺⁶ ₋₄	255 ⁺⁶ ₋₄	255 ⁺⁶ ₋₄	255 ⁺⁶ ₋₄	255 ⁺⁶ ₋₄
Air spring pressure at AWD [bar]	Fig. 5	3,76 (Ref.)	2,82 (Ref.)	2,87 (Ref.)	2,83 (Ref.)	3,02 (Ref.)	2,91 (Ref.)	3,07 (Ref.)	2,85 (Ref.)	2,83 (Ref.)	2,87 (Ref.)	2,83 (Ref.)	2,87 (Ref.)	2,83 (Ref.)	3,76 (Ref.)
Primary Suspension gaps [mm]	Fig. 6	35 ⁺¹² ₋₅	35 ⁺¹² ₋₅	35 ⁺¹² ₋₅	35 ⁺¹² ₋₅	35 ⁺¹² ₋₅	35 ⁺¹² ₋₅	35 ⁺¹² ₋₅	35 ⁺¹² ₋₅	35 ⁺¹² ₋₅	35 ⁺¹² ₋₅	35 ⁺¹² ₋₅	35 ⁺¹² ₋₅	35 ⁺¹² ₋₅	35 ⁺¹² ₋₅
Carbody Floor height [mm]	Fig. 7	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀	1106 ⁺¹⁰ ₋₁₀
Bolster height [mm]	Fig. 7	850 ⁺⁵ ₋₂	850 ⁺⁵ ₋₂	850 ⁺⁵ ₋₂	850 ⁺⁵ ₋₂	850 ⁺⁵ ₋₂	850 ⁺⁵ ₋₂	850 ⁺⁵ ₋₂	850 ⁺⁵ ₋₂	850 ⁺⁵ ₋₂	850 ⁺⁵ ₋₂	850 ⁺⁵ ₋₂	850 ⁺⁵ ₋₂	850 ⁺⁵ ₋₂	850 ⁺⁵ ₋₂
Coupling End height [mm]	Fig. 8 Fig. 9	895 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	895 (Ref.)	760 (Ref.)
Pivot Vertical gap [mm]	Fig. 10	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅	30 ⁺¹⁵ ₋₅



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Leveling report from Production (Final measurements after Levelling and Weighting fine)

References for secondary suspension empty
A'n Air spring height empty

References for secondary suspension full

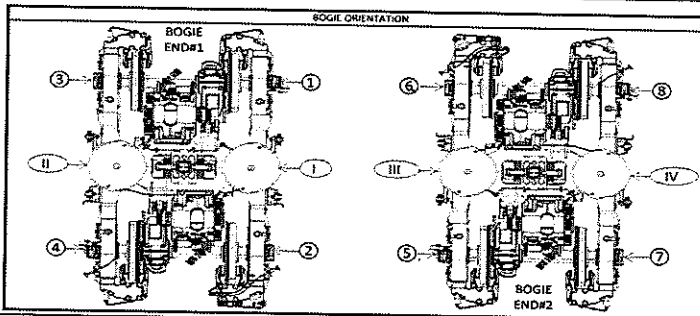
An Air spring height
Bn Difference between measurement A'n and An
En Floor covering height
Cn Air spring pressure
Dn Primary suspension
Kn Pivot Vertical gap
Jn Pivot Lateral stop gaps difference

Item	Reference [mm]	END#1		END#2	
		Right Side	Left Side	Left Side	Right Side
A'n	N/A	A'i 247	A'ii 246	A'iii 244	A'iv 245
An	254 to 261	Ai 255	Aii 258	Aiii 260	Aiv 256
Bn = An - A'n	N/A	Bi 8	Bii 12	Biii 16	Biv 11
En	1108 ±10 mm	Ei 1105	Eii 1114	Eiii 1107	Eiv 1104
Item	Reference [bar]	END#1		END#2	
		Right Side	Left Side	Left Side	Right Side
Cn	Table 02 (*)	Ci 2,855	Cii 2,722	Ciii 2,804	Civ 2,743
Cn - Cn+1	Difference ≤ 0,3	Ci - Cii 0,133		Ciii - Civ 0,061	
Gauge serial number	N/A	G1805873	G1805873	G1805873	G1805873
Item	Reference [mm]	END#1		END#2	
		Right Side	Left Side	Left Side	Right Side
Dn	Table 01 (*)	Di 44,90	Dii 47,0	Diii 45,03	Div 47,21
		Dz 46,50	Dx 46,14	Ds 47,10	Dt 47,12
Kn	25 to 45	Ki 36,8		Kii 37,0	
Jn	Difference ≤ 4	Ji 24,92	Jii 26,90	Jiii 25,71	Jiv 24,99

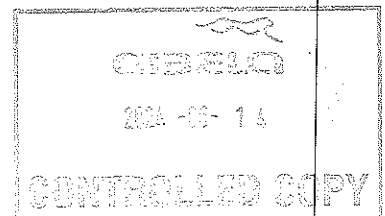
(*) Reference, only include values, isn't approval criteria.

Table 01 D Theoretical Values	TC1		M4		M1		M2		M3		TC2	
	Tbex	Tbin	Mb1	Mb1	Mb1	Mb2	Mb2	Mb1	Mb1	Mb1	Tbin	Tbex
D=	$35 \pm \frac{+12}{-5}$	$35 \pm \frac{+12}{-5}$	$35 \pm \frac{+12}{-5}$	$35 \pm \frac{+12}{-5}$	$35 \pm \frac{+12}{-5}$	$35 \pm \frac{+12}{-5}$	$35 \pm \frac{+12}{-5}$	$35 \pm \frac{+12}{-5}$	$35 \pm \frac{+12}{-5}$	$35 \pm \frac{+12}{-5}$	$35 \pm \frac{+12}{-5}$	$35 \pm \frac{+12}{-5}$


Table 02 C Theoretical Values	TC1		M4		M1		M2		M3		TC2	
	Tbex	Tbin	Mb1	Mb1	Mb1	Mb2	Mb2	Mb1	Mb1	Mb1	Tbin	Tbex
C=	3.76	2.82	2.87	2.83	3.02	2.91	3.07	2.85	2.83	2.87	2.83	3.76

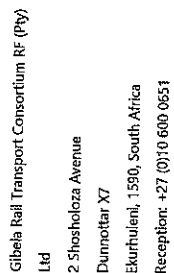


Weighting report from Test and Commissioning (Final measurements after Levelling and Weighting fine)



Validated by Lucy [Signature]





PC09 WEIGHING REPORT

[illegible]

DEROGATION REQUEST

Company GIBELA	Name of the requester Joshua NEMANASHE	Function PME	Date 12 February 2024	Visa 	Request N° PRASA-DERSU-1006 extension
Plant Dunnottar 0302	Plant Country South Africa				
Project PRASA	Customer PRASA				
Product name Reference	Drawing number and Revision				
Temporary <input checked="" type="checkbox"/>	Quantity: 30 Trainsets	Serial numbers / Batch: TS201: Bogie end#1 and Bogie end#2 TS230: Bogie end#1 and Bogie end#2	Permanent <input type="checkbox"/>		
Requirement: The specification for Dn values of primary suspension requires the value for all cars to be Dn=35+/- (12/5)			Anteriority:		
Non-conformity description: Several cars are found to have primary suspension gap which is out of specification. The cars are out of specification on the upper limit with Dn values ranging between 0.1 mm to 2 mm above the maximum Tolerance.			Impact on: Environment..... <input type="checkbox"/> Safety (people)..... <input type="checkbox"/> Contract clauses..... <input type="checkbox"/> Economic Development..... <input type="checkbox"/> Product..... <input type="checkbox"/> Safety..... <input checked="" type="checkbox"/> Reliability..... <input type="checkbox"/> Performances..... <input checked="" type="checkbox"/> Delivery..... <input checked="" type="checkbox"/> Cost..... <input type="checkbox"/> Documentation..... <input type="checkbox"/> Resources..... <input type="checkbox"/> Others..... <input type="checkbox"/>		
Cause of the non-conformity / reasons for request: 1. Reason for request: Primary Suspension gaps are measured after weighing and levelling. The are currently no means of adjusting these gaps at Gibela. 2. Cause of the non-conformity: To be Confirmed - Target date: 30/04/2024					
Attached documents: See self-inspection database from IQ					
Containment action: Evaluate and if no risk approve derogation. Get Wolmerton to do measurement after the primary suspensions. have settled. Allow cars found to be out of tolerance with Dn value of 49 mm and less. to be covered by this derogation.			Use or assignment limitations of the non-conforming product:		
Corrective & Preventive action: TBD					

Function	Entity	Name	Date	Visa	Observations / Conditions	Decision
PME Manager	GIB	Junior MAGADA	22 February 2024			<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK
Train System Engineering	GIB	Mmakwena RAMATSHELA	22/02/2024			<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK
Project Engineering Manager	GIB	Tshepo NKODI	22/02/24			<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK
Quality Manager	GIB	Lucy MAKOFANE	22/02/2024			<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK
Project Quality Manager	GIB	Malibongwe SOLANI	23/02/2024	R.M.C. pp. Reilumetse Mphuthi		<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK
Project Warranty Manager	GIB	Noko MABUTLA	13/03/2024			<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK
Project Manager	GIB	Devendran GOVENDER	13/03/2024		50km/h speed restriction when operating with defalted suspension. Dn setting to be checked at the depot.	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NOK

long term solution to be defined by Engineering

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