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PRASA PROJECT




SELF INSPECTION SHEET

CONFIDENTIAL INFORMATION

This document and the information contemplated therein have to be considered as Confidential Information pursuant to the provisions of Clause 25 of the MSA, and treated as such.

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		✓	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	1	PRA.FT1140.05	YES
<input type="checkbox"/>	DTR3-PROCE-17 LEVELLING, WEIGHTING AND BALANCING TC CAR	FT1140	1	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 228	M4	B. Khomo	06/06/24	SI.FT1140.52	01/08

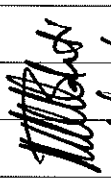
	SELF INSPECTION INDUSTRIAL QUALITY	Rev:09	Projet: PRASA	SI.FT1140.52
		Date: 5/31/2022		

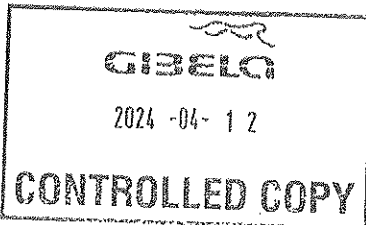
Car:	NCR:	Work Station FT1140
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I - Document and Instrument Control

L1 - Documents control									
Document	TDI	MT	MS	M3	M4	TC2	Revision	Remarks	Signature/Date
PRA.FT1140.04									
PRA.FT1140.05					✓				Albert 06/06/24
PRA.FT1140.05									

L2 - Instruments Control - Monitoring and Measuring Instrument Control (Used for all Instrument with calibration needed)				
Instruments description	Serial number	Calibration or Verification Validation Date	OK	Signature/Date
Measuring tape	CMSTA 0281	26/10/23 - 26/10/24 ✓		
Vernier Calliper	UMBUR 0050	06/06/23 - 06/06/24 ✓		
Torque wrench 320Nm	A969001A	19/1/23 - 19/1/24 ✓		 06/06/24
Torque wrench 150Nm	R7217566	21/1/23 - 21/1/24 ✓		
Torque wrench 35ft/lb	D2511023	21/1/23 - 21/1/24 ✓		





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II - Self Inspection - Items to Check

II.1 - Items to Check

Item	Picture/Sketch	Description	Criteria/Record	OK	NO	REWORK	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		✓			 05/06/24
02		Check underframe pipe system Air tightness Test performance according to VII PRA.FT1130.15.	The test was performed and no leak was observed. Initial pressure (IP) <u>9.91</u> bar Final pressure (FP) <u>9.77</u> bar FP - IP = <u>0.04</u> bar APPROVAL CRITERIA: After 5 minutes the pressure cannot drops more than 0.2 bar	✓			 05/06/24
03		Movement performed at least 50m to shudder the car. And position on the leveled load cell, with wheels on the center.		✓			 06/06/24
04		Measurement Inspection was done with car on condition AW0 and the rail leveled. (The load cells system must be leveled and calibrated)	Calibration Validation Date _ / _ / _	✓			 06/06/24
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)	EQUIPMENT DESCRIPTION <u>Langways</u> WEIGHT (kg) <u>260</u>	✓			 06/06/24
06		The pressure difference between air spring on each bogie when raise the pressure was maintained < 0.3 bar.		✓			 06/06/24
07		Measurement recorded with empty suspension and loaded are on conformity with tolerances of the project.		✓			 06/06/24
08		All leveling measurements are according to the reference. (Values out of reference must be recorded on "Description of defects")		✓			 06/06/24

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Item	Picture/Sketch	Description	Criteria/Record	Pass	Fail	Signature/Date
09		Check that the leveling rods are torqued and have torque marker.		✓		<i>[Signature]</i>
10		The difference of weight between the left and right wheels of each axis, must be ≤ 4%. (Verify on the T&C equipment if all arrows are in green).		✓		<i>[Signature]</i> 06/06/24
11		Remove the car, move back onto the load cells and repeat the step 09. Confirm if both are in the tolerance of ≤ 4%.		✓		<i>[Signature]</i> 06/06/24
12		1 - Record shims thickness used on rod. 2 - All screws were torqued and have torque marker.	THICKNESS (mm) I 0 II 0 III 0 IV 0	✓		<i>[Signature]</i>
13		Pivot friction	1- M20 x 90 screws with application of torque according to PRA.FT1140.04 / 05	✓		<i>[Signature]</i> 06/06/24
14		FOR TC CARS F= Height of the center of Automatic coupler F = 805mm (+5/-10mm) (Using levelled rail)	TC CAB #1= _____ mm			N/A
15		FOR TC CARS Height of Eurobalse Antenna = 205mm(+/-10mm) (Using levelled rail)	TC CAB #1= _____ mm			N/A
16		Check pantograph piping air tightness. Test performance according to WI PRA.FT1140.17.	The test was performed and no leak was observed. -Roof piping connection fittings -Room piping connection fittings(Roof arch and door trimming)			N/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			N/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	✓		<i>[Signature]</i> 06/06/24

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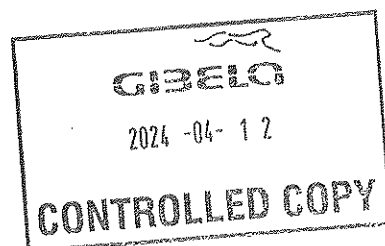
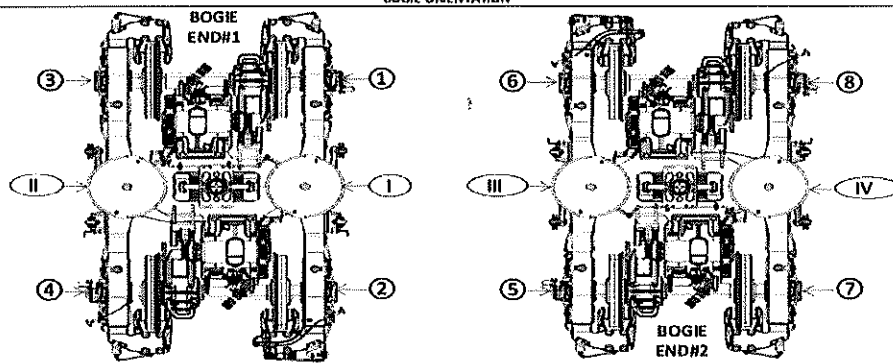
SI.FT1140.52

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

DESCRIPTION	TOLERANCE	END#1													
		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)	mh 254 max 261	Aii				257	257	257	258	256	257				Ai
FLOOR COVERING HEIGHT	mh 1096 max 1116	Eii				1105	1105	1105	1109	1106	1107				Ei
AIR SPRING PRESSURE	≤ 0.3 (Di - Ci)	Cii				2,64	2,59	2,52	2,91	2,84	2,77				Ci
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	Ds												D1	
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	Ds												D2	
PIVOT VERTICAL GAP	mh 25 max 32	Kii												Ki	
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (Ai - A)	Jii												Ji	
QTY OF TURNS OF LEVELLING ROD	N/A	Xii					0	0	1/2	0				Xi	
SHIMS OF ANTI-ROLL BAR	N/A	Yii												Yi	
DESCRIPTION	TOLERANCE	END#2													
		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)	mh 254 max 261	Aiii				257	257	259	257	258	260				Aiv
FLOOR COVERING HEIGHT	mh 1096 max 1116	Eiii				1107	1107	1109	1107	1109	1111				Eiv
AIR SPRING PRESSURE	≤ 0.3 (Di - Ci)	Ciii				2,84	2,90	2,97	2,87	2,66	2,71				Civ
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	Ds												D7	
PRIMARY SUSPENSION	SEE TABLE (ONLY REF)	Ds												D8	
PIVOT VERTICAL GAP	mh 25 max 32	Kiii												Kiv	
PIVOT LATERAL STOP GAPS DIFFERENCE	≤ 4 (Ai - A)	Jiii												Jiv	
QTY OF TURNS OF LEVELLING ROD	N/A	Xiii					1/2	1/2	0	1/2				Xiv	
SHIMS OF ANTI-ROLL BAR	N/A	Yiii												Yiv	

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

GOOD	LOWER	HIGHER
✓	↓	↑
WEIGHT COMPENSATION		
EQUIPMENT		
WEIGHT		
EQUIPMENT		
WEIGHT		
SECONDARY MEASUREMENTS (ONLY TO CABS)		
AUTOMATIC COUPLER HEIGHT		
ANTENNA HEIGHT		





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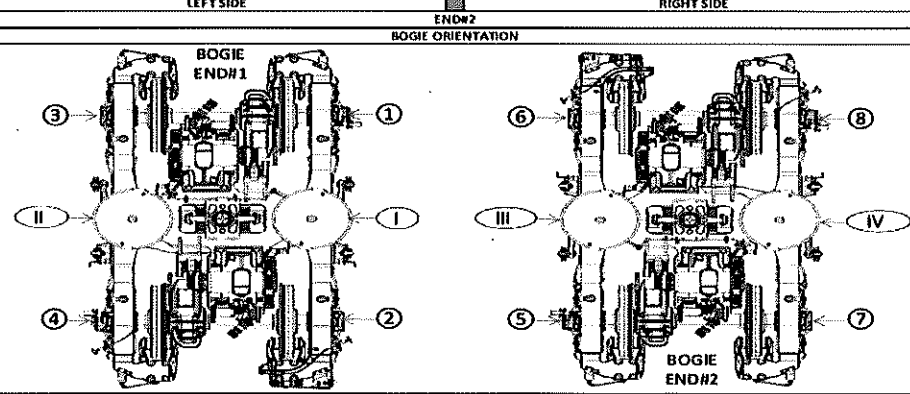
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DRAFT TO MEASUREMENTS DURING LEVELLING (ALL UNITS MUST BE IN mm/bar/kg)

DESCRIPTION	TOLERANCE	END#1												
		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 ⁱⁱⁱ												A ⁱ
FLOOR COVERING HEIGHT	min 1096 max 1116	E ⁱⁱ												E ⁱ
AIR SPRING PRESSURE	± 0.3 (C ⁱ - C ^o)	C ⁱⁱ												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 ^o)	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												A ^{iv}
FLOOR COVERING HEIGHT	min 1096 max 1116	E ⁱⁱⁱ												E ^{iv}
AIR SPRING PRESSURE	± 0.3 (C ^{iv} - C ^o)	C ⁱⁱⁱ												C ^v
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 ^v - J ^o)	J ⁱⁱⁱ												J ^v
QTY OF TURNS OF LEVELLING ROD	N/A	X ⁱⁱⁱ												X ^v
SHIMS OF ANTI-ROLL BAR	N/A	Y ⁱⁱⁱ												Y ^v

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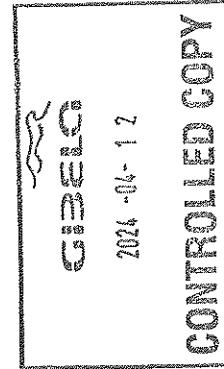
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Table 1 - Reference Values and Measurement Tolerances for the Car Levelling.

ITEM	THEORETICAL VALUES													
	TEL CAR		M4 CAR		M3 CAR		M2 CAR		M1 CAR		M5 CAR		T2 CAR	
	TDCR	TBITT	M51	M52	M51	M52	M51	M52	M51	M52	M51	M52	TBITT	TDCR
Pivot lateral stop gap difference [mm]	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4
Air Spring height [mm]	255 ⁺⁴ ₋₁	255 ⁺⁴ ₋₁	255 ⁺⁴ ₋₁	255 ⁺⁴ ₋₁	255 ⁺⁴ ₋₁	255 ⁺⁴ ₋₁	255 ⁺⁴ ₋₁	255 ⁺⁴ ₋₁	255 ⁺⁴ ₋₁	255 ⁺⁴ ₋₁	255 ⁺⁴ ₋₁	255 ⁺⁴ ₋₁	255 ⁺⁴ ₋₁	255 ⁺⁴ ₋₁
Air spring pressure at AWD [Bar]	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.)	2,83 (Ref.)	2,87 (Ref.)	2,83 (Ref.)	2,83 (Ref.)	3,76 (Ref.)
Primary Suspension gaps [mm]	C ₁ -C ₂ C ₃ -C ₄	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.	0,3 Max.
	D ₁ :D ₅	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁
	D ₂ :D ₄	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁
	D ₃ :D ₇	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁	35 ⁺² ₋₁
Canopy Floor height [mm]	1106 ⁺²⁰ ₋₂₂	1106 ⁺²⁰ ₋₂₂	1106 ⁺²⁰ ₋₂₂	1106 ⁺²⁰ ₋₂₂	1106 ⁺²⁰ ₋₂₂	1106 ⁺²⁰ ₋₂₂	1106 ⁺²⁰ ₋₂₂	1106 ⁺²⁰ ₋₂₂	1106 ⁺²⁰ ₋₂₂	1106 ⁺²⁰ ₋₂₂	1106 ⁺²⁰ ₋₂₂	1106 ⁺²⁰ ₋₂₂	1106 ⁺²⁰ ₋₂₂	1106 ⁺²⁰ ₋₂₂
Boisier height [mm]	850 ⁺³ ₋₂	850 ⁺³ ₋₂	850 ⁺³ ₋₂	850 ⁺³ ₋₂	850 ⁺³ ₋₂	850 ⁺³ ₋₂	850 ⁺³ ₋₂	850 ⁺³ ₋₂	850 ⁺³ ₋₂	850 ⁺³ ₋₂	850 ⁺³ ₋₂	850 ⁺³ ₋₂	850 ⁺³ ₋₂	850 ⁺³ ₋₂
Coupling End height [mm]	F ₁	895 (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.)
	F ₂	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)	760 (Ref.)
Pivot Vertical gap [mm]	30 ⁺¹⁵ ₋₃	30 ⁺¹⁵ ₋₃	30 ⁺¹⁵ ₋₃	30 ⁺¹⁵ ₋₃	30 ⁺¹⁵ ₋₃	30 ⁺¹⁵ ₋₃	30 ⁺¹⁵ ₋₃	30 ⁺¹⁵ ₋₃	30 ⁺¹⁵ ₋₃	30 ⁺¹⁵ ₋₃	30 ⁺¹⁵ ₋₃	30 ⁺¹⁵ ₋₃	30 ⁺¹⁵ ₋₃	30 ⁺¹⁵ ₋₃



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

References for secondary suspension empty

A'n Air spring height empty

References for secondary suspension full

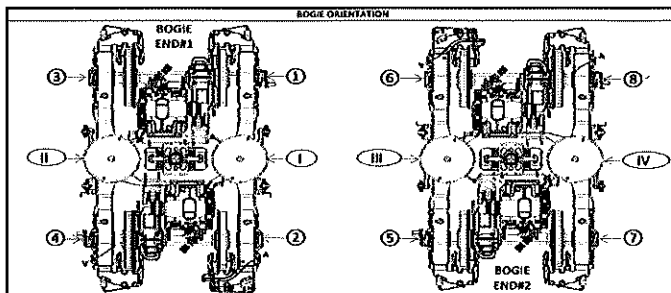
- An Air spring height
- Bn Difference between measurement A'n and An
- En Floor covering height
- Cn Air spring pressure
- Dn Primary suspension
- Kn Pivot Vertical gap
- Jn Pivot Lateral stop gaps difference

Item	Reference [mm]	END#1		END#2	
		Right Side	Left Side	Left Side	Right Side
A'n	N/A	A'n 244	A'n 244	A'w 242	A'w 245
An	254 to 261	Au 257	Au 257	Au 257	Av 260
Bn = An - A'n	N/A	Br 13	Bu 13	Bw 15	Bv 15
En	1106 ± 10 mm	Ei 1107	Ei 1105	Ew 1107	Ew 1111
Item	Reference [bar]	END#1		END#2	
Cn	Table 02 (*)	Ci 2.77	Cu 2.64	Cw 2.84	Cv 2.71
Cn - Cn	Difference ≤ 0,3	Ci - Cu 0,13		Cw - Cv 0,13	
Gauge serial number	N/A	81B05873		81B05873	
Item	Reference [mm]	END#1		END#2	
Dn	Table 01 (*)	Dr 43.92	Ds 45.07	Dw 44.42	Dw 46.00
		Dr 44.15	Ds 45.49	Dw 44.61	Dw 46.18
Kn	25 to 45	36.48		33.18	
Jn = J1 - J2 + 1	Difference ≤ 4	Ji 25.45	Ji 24.94	Jw 26.60	Jw 25.44

(*) 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 ⁺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

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



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



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Item	Description of defects	OK	NO	Signature/Date

IL2 - Check List REX

Check List Items

Item	Picture/Drawing	Description/Description	Critere/Record	OK	NO	Signature/Date
01	N/A	To complete REX	Refer to REX. New defects must be added on the REX	✓		<i>[Signature]</i> 06/06/24

Self Inspection - Final Result

Is the K47 good to advance to the next workstation/process? (Approval of Operations Manager/Team Leader and Industrial Quality)		DATE	NAME	SIGNATURE
HOLD POINT	<input checked="" type="checkbox"/>	06/06/24	Mato	<i>[Signature]</i>
	<input checked="" type="checkbox"/>			<i>[Signature]</i>
	<input type="checkbox"/>	06/06/24	Mato	Operations Manager
	<input type="checkbox"/>			Industrial Quality

In case of "NO GO", describe blocking problems

In case of "NO GO", the operations manager must define below action plan to ensure "GO":

Item	Description	Action	Responsible	Status

Operations Manager / Team Leader

Quality Manager / Team Leader





Gibela Rail Transport Consortium RF (Pty)
Ltd
2 Shosholozza Avenue
Dunmottar X7
Ekurhuleni, 1590, South Africa
Reception: +27 (0)10 600 0651

TRAIN SET 228	PCS WEIGHING REPORT
---------------	---------------------

M4	Balance across front and rear bogies	Front Bogie [Tons] 17.77	Rear Bogie [Tons] 17.88	Longitudinal Imbalance [%] 0.31%	Criteria Longitudinal Imbalance \leq 3%
	Weight Measured vs Predicted	Weight Measured [Tons] 35.65	Weight Predicted [Tons] 35.95	Weight Difference [%] 0.83%	Tolerance [%] 1.36% Criteria MinDiff/Max PASS

Shop Gibela	Company Gibela	Department EOC	Signature 	Date 06/06/24
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