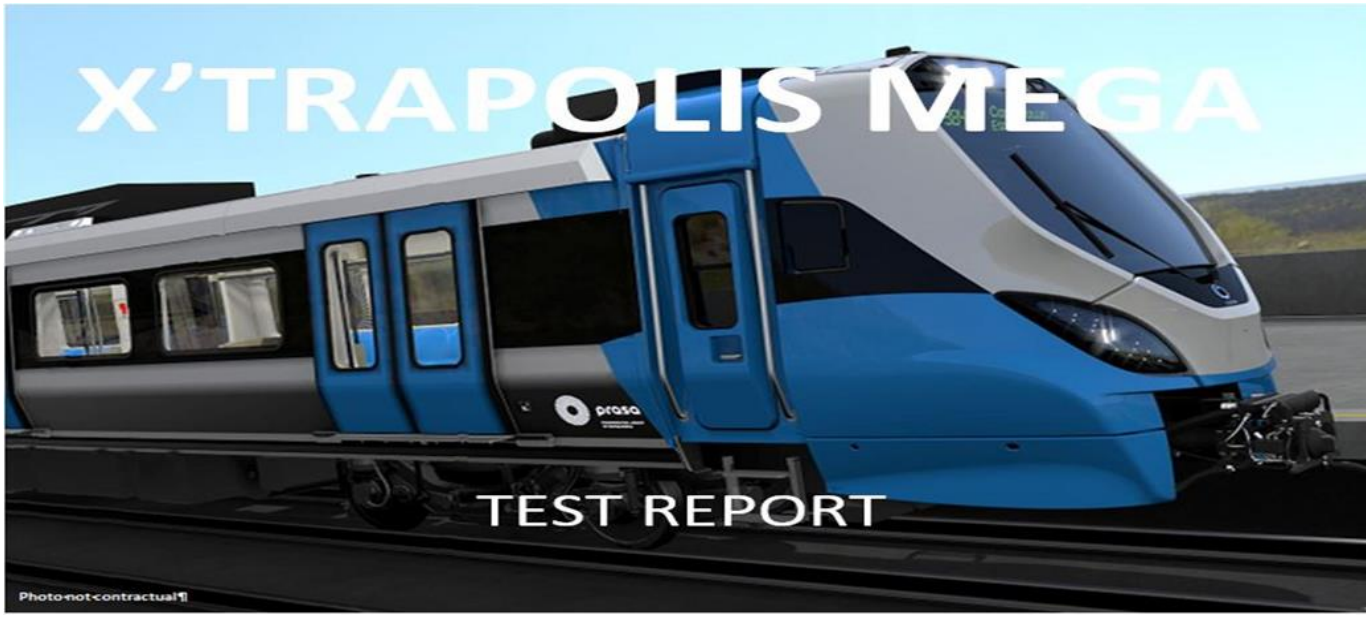
PROJECT	CUSTOMER	VEHICLE
Xtrapolis-PRASA	**PRASA**	**290 – M4 – VPT**

RTR Vehicle Pre-Testing TS290 M4 Report

GIB0000008317



	CREATED	VERIFIED	APPROVED	DISTRIBUTION
Name	Vusumuzi ZULU	Lindani Ngubane	Kgomotso NKOANA	Confidentiality Category *Restricted* ☐ *Project* ☐ *Normal* ☑
Date	16/7/2025	16/7/2025	16/7/2025	Control Category *Controlled* ☑ *Not Controlled* ☐
Signature				Language **EN**

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Table of modifications

Rev	Date	Modifications Content	Writer
A0	16/7/2025	Creation	Vusumuzi ZULU

Internal validations

	Name	Function	Date	Signature
Creator	Vusumuzi ZULU	EPU Manager	16/7/2025	X Vusumuzi ZULU EPU Manager
Verifier	Lindani Ngubane	Serial Test Manager	16/7/2025	X Lindani Ngubane Serial Test Manager
Approver	Kgomotso NKOANA	Test Expert	16/7/2025	X Kgomotso NKOANA Test Expert

Execution Plan

Start Date	1/7/2025
End Date	1/7/2025

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Section 1 – Purpose / Objectives

1. Protective Bonding

The objective of this procedure is to verify the return path of the current to the ground.

2. Reflectometry

The objective of this procedure is to verify the integrity of the ethernet cables.

3. Config

The objective of this procedure is to set up car ID for specific systems such as fire and to verify wiring to the speed sensors and OTDR.

4. Traction motors

The objective of this procedure is to verify the wiring configuration of the motors. This is to ensure that all the motors are wired the same and shall rotate in the same direction in operation

Section 2 – Protective Bonding and Return Current

2.1 Instructions list

2.1.1 012_PB-Protective Bonding and Return Current

I - Information A - Action R - Result NE - Not Executed

N°	Type	Instruction	File	Result status	Result value	Operator	Vehicle
10001	I	Return Circuit: Car Body to Ground		OK		Carol Gumede 425280 01.07.2025	M4
10002	I	The purpose of this test is to confirm that the car body of each car in the train is connected to ground via the earthing brush which will ensure that current from the overhead wire is returned to the substation without damage to equipment or risk of electric shock		OK		Carol Gumede 425280 01.07.2025	M4
10003	A	Use the Tool List to record the serial number of the Ohmmeter that will be used in this test		OK		Carol Gumede 425280 01.07.2025	M4
10004	A	Ensure that the current setpoint is 50A and voltage <50V (applicable for all impedance measurement) on the ohmmeter device to be used for the test.		OK		Carol Gumede 425280 01.07.2025	M4
10005	I	For all impedance measurements of the car body to ground the positive terminal shall be connected to the car body and the negative terminal to the rail		OK		Carol Gumede 425280 01.07.2025	M4
10006	I	For all other impedance measurements, the positive terminal shall be connected to the tested subject and the negative terminal to the car body shell.		OK		Carol Gumede 425280 01.07.2025	M4
10007	A	Visually identify and inspect that the earthing cables of the 1st and 2nd axle of the 1st and 2nd Bogie Frame are properly connected to the axle brushes		OK		Carol Gumede 425280 01.07.2025	M4
10008	A	Disconnect from the axle box the earthing cable of the 1st and 2nd axle of the 1st and 2nd Bogie Frame of the M4 car		OK		Carol Gumede 425280 01.07.2025	M4
10009	R	All the earthing cables of the M4 car are disconnected		OK		Carol Gumede 425280 01.07.2025	M4
10010	A	Connect the earthing cable of the 1st axle in the 1st Bogie Frame		OK		Carol Gumede 425280 01.07.2025	M4
10011	R	Only the earthing cable of the 1st axle of the 1st Bogie Frame is connected		OK		Carol Gumede 425280 01.07.2025	M4
10012	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Carol Gumede 425280 01.07.2025	M4
10013	R	ImpedanceResult Max : x <= 0.05 (Ohm)		OK	0.00324	Carol Gumede 425280 01.07.2025	M4

10014	A	Disconnect the earthing cable of the 1st axle of the 1st bogie frame		OK		Carol Gumede 425280 01.07.2025	M4
10015	R	Earthing cable disconnected		OK		Carol Gumede 425280 01.07.2025	M4
10016	A	Connect the earthing cable of the 2nd axle in the 1st Bogie Frame		OK		Carol Gumede 425280 01.07.2025	M4
10017	R	Only the earthing cable of the 2nd axle of the 1st Bogie Frame is connected		OK		Carol Gumede 425280 01.07.2025	M4
10018	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Carol Gumede 425280 01.07.2025	M4
10019	R	ImpedanceResult Max : x <= 0.05 (Ohm)		OK	0.00119	Carol Gumede 425280 01.07.2025	M4
10020	R	Earthing cable disconnected		OK		Carol Gumede 425280 01.07.2025	M4
10021	A	Disconnect the earthing cable of the 2nd axle of the 1st bogie frame		OK		Carol Gumede 425280 01.07.2025	M4
10022	I	Earthing of Equipment on the Underframe		OK		Carol Gumede 425280 01.07.2025	M4
10023	A	Connect the earthing cable of the 1st axle in the 2nd Bogie Frame		OK		Carol Gumede 425280 01.07.2025	M4
10024	R	Only the earthing cable of the 1st axle of the 2nd Bogie Frame is connected		OK		Carol Gumede 425280 01.07.2025	M4
10025	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Carol Gumede 425280 01.07.2025	M4
10026	R	ImpedanceResult Max : x <= 0.05 (Ohm)		OK	0.002756	Carol Gumede 425280 01.07.2025	M4
10027	A	Disconnect the earthing cable of the 1st axle of the 2nd bogie frame		OK		Carol Gumede 425280 01.07.2025	M4
10028	R	Earthing cable disconnected		OK		Carol Gumede 425280 01.07.2025	M4
10029	A	Connect the earthing cable of the 2nd axle in the 2nd Bogie Frame		OK		Carol Gumede 425280 01.07.2025	M4
10030	R	Only the earthing cable of the 1st axle of the 2nd Bogie Frame is connected		OK		Carol Gumede 425280 01.07.2025	M4
10031	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Carol Gumede 425280 01.07.2025	M4
10032	R	ImpedanceResult Max : x <= 0.05 (Ohm)		OK	0.001276	Carol Gumede 425280	M4

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10033	A	Reconnect all earthing cables of the 1st and 2nd axle of the 1st and 2nd Bogie Frame		OK		Carol Gumede 425280 01.07.2025	M4
10034	R	All earthing cables connected on the 1st and 2nd Bogie Frame		OK		Carol Gumede 425280 01.07.2025	M4
10035	A	Visually inspect that the earthing cable connecting the Traction Inverter Case to M4 car body is properly connected and related bolts are correctly torqued		OK		Carol Gumede 425280 01.07.2025	M4
10036	R	Traction Inverter Case visually grounded and torque is correctly marked		OK		Carol Gumede 425280 01.07.2025	M4
10037	A	Using an ohmmeter measure the impedance between the Traction Inverter Case and the car body		OK		Carol Gumede 425280 01.07.2025	M4
10038	R	ImpedanceResult Max : x <= 0.05 (Ohm)		OK	0.0011009	Carol Gumede 425280 01.07.2025	M4
10039	A	Visually inspect that the earthing cable connecting the Line Inductor Case to M4 car body is properly connected and related bolts are correctly torqued.		OK		Carol Gumede 425280 01.07.2025	M4
10040	R	Line Inductor Case visually grounded and torque is correctly marked		OK		Carol Gumede 425280 01.07.2025	M4
10041	A	Using an ohmmeter measure the impedance between the Line Inductor Case and the car body		OK		Carol Gumede 425280 01.07.2025	M4
10042	R	ImpedanceResult Max : x <= 0.05 (Ohm)		OK	0.00324	Carol Gumede 425280 01.07.2025	M4
10043	A	Visually inspect that the earthing cable connecting the Traction Motors of the 1st and 2nd axle of the 1st Bogie Frame to the car body is properly connected and related bolts are correctly torqued.		OK		Carol Gumede 425280 01.07.2025	M4
10044	R	Traction Motors visually grounded and torque is correctly marked		OK		Carol Gumede 425280 01.07.2025	M4
10045	A	Using an ohmmeter measure the impedance between the Traction Motor of the 1st and 2nd axle of the 1st Bogie Frame and the car body		OK		Carol Gumede 425280 01.07.2025	M4
10046	R	ImpedanceResult Max : x <= 0.05 (Ohm)		OK	0.00303	Carol Gumede 425280 01.07.2025	M4
10047	A	Visually inspect that the earthing cable connecting the Traction Motors of the 1st and 2nd axle of the 2nd Bogie Frame to the car body is properly connected and related bolts are correctly torqued.		OK		Carol Gumede 425280 01.07.2025	M4
10048	R	Traction Motors visually grounded and torque is correctly marked		OK		Carol Gumede 425280 01.07.2025	M4

10049	A	Using an ohmmeter measure the impedance between the Traction Motor of the 1st and 2nd axle of the 2nd Bogie Frame and the car body		OK		Carol Gumede 425280 01.07.2025	M4
10050	R	ImpedanceResult Max : x <= 0.05 (Ohm)		OK	0.00113	Carol Gumede 425280 01.07.2025	M4
10051	I	Earthing of Interior Equipment		OK		Carol Gumede 425280 01.07.2025	M4
10052	A	Visually inspect that the earthing cable connecting the LV3 cubicle, and the car body is properly connected and related bolts are correctly torqued		OK		Carol Gumede 425280 01.07.2025	M4
10053	R	LV3 cubicle visually grounded and torque is correctly marked		OK		Carol Gumede 425280 01.07.2025	M4
10054	A	Using an ohmmeter measure the impedance between the LV3 cubicle and the car body		OK		Carol Gumede 425280 01.07.2025	M4
10055	R	ImpedanceResult Max : x <= 0.05 (Ohm)		OK	0.00409	Carol Gumede 425280 01.07.2025	M4
10056	A	Visually inspect that the earthing cable connecting the LV6 cubicle, and the car body is properly connected and related bolts are correctly torqued		OK		Carol Gumede 425280 01.07.2025	M4
10057	R	LV6 cubicle visually grounded and torque is correctly marked		OK		Carol Gumede 425280 01.07.2025	M4
10058	A	Using an ohmmeter measure the impedance between the LV6 cubicle and the car body		OK		Carol Gumede 425280 01.07.2025	M4
10059	R	ImpedanceResult Max : x <= 0.05 (Ohm)		OK	0.008	Carol Gumede 425280 01.07.2025	M4
10060	I	Earthing of Equipment on the Roof		OK		Carol Gumede 425280 01.07.2025	M4
10061	A	Visually inspect that the earthing cable connecting the 1st Braking Resistor Box to M4 car body is properly connected and related bolts are correctly torqued		OK		Carol Gumede 425280 01.07.2025	M4
10062	R	1st Braking Resistor Box visually grounded and torque is correctly marked		OK		Carol Gumede 425280 01.07.2025	M4
10063	A	Using an ohmmeter measure the impedance between the 1st Braking Resistor Box and the car body		OK		Carol Gumede 425280 01.07.2025	M4
10064	R	ImpedanceResult Max : x <= 0.05 (Ohm)		OK	0.00409	Carol Gumede 425280 01.07.2025	M4
10065	A	Visually inspect that the earthing cable connecting the Saloon HVAC to M4 car body is properly connected and related bolts are correctly torqued		OK		Carol Gumede 425280 01.07.2025	M4

10066	R	Saloon HVAC visually grounded and torque is correctly marked		OK		Carol Gumede 425280 01.07.2025	M4
10067	A	Using an ohmmeter measure the impedance between the Saloon HVAC and the car body		OK		Carol Gumede 425280 01.07.2025	M4
10068	R	ImpedanceResult Max : x <= 0.05 (Ohm)		OK	0.00121	Carol Gumede 425280 01.07.2025	M4
10069	A	Visually inspect that the earthing cable connecting the 2nd Braking Resistor Box to M4 car body is properly connected and related bolts are correctly torqued		OK		Carol Gumede 425280 01.07.2025	M4
10070	R	2nd Braking Resistor Box visually grounded and torque is correctly marked		OK		Carol Gumede 425280 01.07.2025	M4
10071	A	Using an ohmmeter measure the impedance between the 1st Braking Resistor Box and the car body		OK		Carol Gumede 425280 01.07.2025	M4
10072	R	ImpedanceResult Max : x <= 0.05 (Ohm)		OK	0.001054	Carol Gumede 425280 01.07.2025	M4

Section 3 – Reflectometry

3.1 Instructions list

3.1.1 025_NET_054_PIS-Network Cabling Integrity

I - Information A - Action R - Result NE - Not Executed

N°	Type	Instruction	File	Result status	Result value	Operator	Vehicle
10001	I	Network Cabling Integrity Test		OK		Carol Gumede 425280 01.07.2025	M4
10002	I	It is necessary to check the network cables to ensure that they have been installed correctly to improve the overall operation of the system.		OK		Carol Gumede 425280 01.07.2025	M4
10003	I	The Cable Analyzer Module DSX-5000 will be used to validate cabling		OK		Carol Gumede 425280 01.07.2025	M4
10004	I	Register as a new Operator on the DSX-5000. Check on the manual below on how to register as a new Operator ***[9-56-43-308052_DSX 5000 User Manual.pdf]***	PDF	OK		Carol Gumede 425280 01.07.2025	M4
10005	I	When saving the tests results for each line, it should be named by its trainset number (X) and the test code (Indicated in the test step). i.e. TS021_P01 for PACIS and TS021_T01 for TCMS.		OK		Carol Gumede 425280 01.07.2025	M4
10006	I	TCMS cabling		OK		Carol Gumede 425280 01.07.2025	M4
10007	A	From: [25A10 CRS1 (Local: +LV3; Connector: 25XP10_X3)] to: [25A11 CRS2 (Local: +LV3; Connector: 25XP11_X4)] NOTE: Cable is crossed TSX_M4_T01		OK		Carol Gumede 425280 01.07.2025	M4
10008	A	From: [25A10 CRS1 (Local: +LV3; Connector: 25XP10_X4)] to: [(Local: +END1; Connector: 90XP12.All)] NOTE: Cable is straight TSX_M4_T02		OK		Carol Gumede 425280 01.07.2025	M4
10009	A	From: [25A14 TBR (Local: +LV3; Connector: 25XP14_ETH0)] to: [(Local: +END1; Connector: 90XR11.All)]		OK		Carol Gumede 425280 01.07.2025	M4

		NOTE: Cable is crossed TSX_M4_T03					
10010	A	From: [25A11 CRS2 (Local: +LV3; Connector: 25XP11_X3)] to: [Inter-car (Local: +END2; Connector: 90XP22.all)] NOTE: Cable is crossed TSX_M4_T04		OK		Carol Gumede 425280 01.07.2025	M4
10011	A	From: [25A14 TBR (Local: +LV3; Connector: 25XP14_ETH1)] to: [Inter-car (Local: +END2; Connector: 90XP22.al)] NOTE: Cable is straight TSX_M4_T05		OK		Carol Gumede 425280 01.07.2025	M4
10012	A	From: [(Local: +END1; Connector: 90XR12.Al)] to: [Inter-car (Local: +END2; Connector: 90XP21.al)] NOTE: Cable is straight TSX_M4_T06		OK		Carol Gumede 425280 01.07.2025	M4
10013	A	From: [(Local: +END1; Connector: 90XR11.Al)] to: [Inter-car (Local: +END2; Connector: 90XP21.all)] NOTE: Cable is straight TSX_M4_T07		OK		Carol Gumede 425280 01.07.2025	M4
10014	I	Pacis cabling		OK		Carol Gumede 425280 01.07.2025	M4
10015	A	From: [(Local: +END1; Connector: -90XR11.Ell] to: [Inter-car (Local: +END2; Connector: -90XP21.ell)] NOTE: Cable is straight TSX_M4_P01		OK		Carol Gumede 425280 01.07.2025	M4
10016	A	From: [54A10 SWITCH ETHERNET (CRS1) (Local: +LV6; Connector: 54XP10_X7)] to: [(Local: +END1; Connector: -90XR12.Ell)] NOTE: Cable is crossed TSX_M4_P02		OK		Carol Gumede 425280 01.07.2025	M4
10017	A	From: [54A11 SWITCH ETHERNET (CRS2) (Local: +LV6; Connector: 54XP11_X8)] to: [(Local: +END2; Connector: -90XP22.ell)] NOTE: Cable is straight TSX_M4_P03		OK		Carol Gumede 425280 01.07.2025	M4
10018	A	From: [54A11 SWITCH ETHERNET (CRS2) (Local: +LV6; Connector: 54XP11_X7)] to: [54A10 SWITCH ETHERNET (CRS1) (Local: +LV6; Connector: 54XP10_X8)] NOTE: Cable is crossed TSX_M4_P04		OK		Carol Gumede 425280 01.07.2025	M4
10019	A	All cables have been validated on M4		OK		Carol Gumede	M4

						425280 01.07.2025	
10020	R	Download all the results from Fluke and save them on PC with folder name "M4_TSxx"		OK		Oageng Kegakilwe 514498 03.07.2025	M4
10021	R			OK		Oageng Kegakilwe 514498 03.07.2025	M4

Section 4 – Config

4.1 Instructions list

4.1.1 CONFIG-Vehicle Configuration

I - Information A - Action R - Result NE - Not Executed

N°	Type	Instruction	File	Result status	Result value	Operator	Vehicle
10001	I	Configuration Checks		OK		Carol Gumede 425280 01.07.2025	M4
10002	A	Check continuity on all pins of End 1 connector 90XP15 & 90XP14 to ground		OK		Carol Gumede 425280 01.07.2025	M4
10003	R	There is no continuity		OK		Carol Gumede 425280 01.07.2025	M4
10004	A	Check continuity on all pins of End 2 connector 90XP15 & 90XP14 to ground		OK		Carol Gumede 425280 01.07.2025	M4
10005	R	There is no continuity		OK		Carol Gumede 425280 01.07.2025	M4
10006	I	Fire Detection_67		OK		Carol Gumede 425280 01.07.2025	M4
10007	I	Smoke Detector Address Configuration		OK		Carol Gumede 425280 01.07.2025	M4
10008	A	Remove and configure the Smoke Detector 67A2 (+PA1) according to the figure below		OK		Carol Gumede 425280 01.07.2025	M4
10009	A	Reconnect Smoke Detector 67A2		OK		Carol Gumede 425280 01.07.2025	M4
10010	A	Remove and configure the Smoke Detector 67A3 (+PA3) according to the figure below		OK		Carol Gumede 425280 01.07.2025	M4
10011	I	Line Heat Detection		OK		Carol Gumede 425280 01.07.2025	M4
10012	R	Measure the resistance between point 1 and point 4 of the connector 67XP3_11Result Min/Max : 550<= x<= 700 (Ohms)		OK	559	Carol Gumede 425280 01.07.2025	M4
10013	A	Reconnect Smoke Detector 67A3		OK		Carol Gumede 425280	M4

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10014	I	OTDR LOOP		OK		Carol Gumede 425280 01.07.2025	M4
10015	I	Check the continuity between the following points:		OK		Carol Gumede 425280 01.07.2025	M4
10016	A	From: [+lV1 (local: +END1 Connector -90XR13.B (pin1))] to: [local: +END2 Connector -90XP23.b(pin1)]		OK		Carol Gumede 425280 01.07.2025	M4
10017	A	From: [-lV1 (local: +END1 Connector -90XR13.B (pin2))] to: [local: +END2 Connector -90XP23.b (pin2)]		OK		Carol Gumede 425280 01.07.2025	M4

Section 5 – Traction Motors

5.1 Instructions list

5.1.1 011_TRM-Traction Motors

I - Information A - Action R - Result NE - Not Executed

N°	Type	Instruction	File	Result status	Result value	Operator	Vehicle
10001	I	Traction Motors (SPP = 11)		OK		Carol Gumede 425280 01.07.2025	M4
10002	I	Ensure all the CONNECTORS are fully ASSEMBLED before running a continuity test.		OK		Carol Gumede 425280 01.07.2025	M4
10003	I	The following test is used to confirm the wiring of the traction motors.		OK		Carol Gumede 425280 01.07.2025	M4
10004	I	SAFETY NOTICE: It is important to ensure that there is no 400Vac power supply on the vehicle.		OK		Carol Gumede 425280 01.07.2025	M4
10005	A	Switch OFF the 400Vac power supply at the source and disconnect the supply cables from the vehicle		OK		Carol Gumede 425280 01.07.2025	M4
10006	R	There is no 400Vac available on the vehicle		OK		Carol Gumede 425280 01.07.2025	M4
10007	I	Bogie 1 (MB1)		OK		Carol Gumede 425280 01.07.2025	M4
10008	I	Visual Inspection		OK		Carol Gumede 425280 01.07.2025	M4
10009	A	For motor 1 and motor 2 connect 11XR1 and 11XR2 and visually inspect that the following cables are connected from -11XR1 connector to -11M1 motor and -11XR2 connector to -11M2 motor respectively. NOTE: the cable configuration should be straight, none should cross the other		OK		Carol Gumede 425280 01.07.2025	M4
10010	I	Motor 2		OK		Carol Gumede 425280 01.07.2025	M4
10011	R	[-11XR2 connector (local: UND -11XP2_2.X1 pin 1)] connected to: [-11XT2 motor terminals (U) -11M2].		OK		Carol Gumede 425280 01.07.2025	M4

10012	R	[-11XR2 connector (local: UND - 11XP2_2.X2 pin 1)] connected to: [-11XT2 motor terminals (V) -11M2].		OK		Carol Gumede 425280 01.07.2025	M4
10013	R	[-11XR2 connector (local: UND - 11XP2_2.X3 pin 1)] connected to: [-11XT2 motor terminals (W) -11M2].		OK		Carol Gumede 425280 01.07.2025	M4
10014	R	-11M2 Motor terminals PE connected to -11GND2.		OK		Carol Gumede 425280 01.07.2025	M4
10015	I	Motor 1		OK		Carol Gumede 425280 01.07.2025	M4
10016	R	[-11XR1 connector (local: UND - 11XP1_2.X1 pin 1)] connected to: [-11XT1 motor terminals (U) -11M1].		OK		Carol Gumede 425280 01.07.2025	M4
10017	R	[-11XR1 connector (local: UND - 11XP1_2.X2 pin 1)] connected to: [-11XT1 motor terminals (V) -11M1].		OK		Carol Gumede 425280 01.07.2025	M4
10018	R	[-11XR1 connector (local: UND - 11XP1_2.X3 pin 1)] connected to: [-11XT1 motor terminals (W) -11M1].		OK		Carol Gumede 425280 01.07.2025	M4
10019	R	-11M1 Motor terminals PE connected to -11GND.		OK		Carol Gumede 425280 01.07.2025	M4
10020	I	Bogie 2 (MB2)		OK		Carol Gumede 425280 01.07.2025	M4
10021	I	Visual Inspection		OK		Carol Gumede 425280 01.07.2025	M4
10022	A	For motor 3 and motor 4 visually inspect that the following cables are connected from -11XR3 connector to -11M3 motor and -11XR4 connector to -11M4 motor respectively. NOTE: the cable configuration should be straight, none should cross the other		OK		Carol Gumede 425280 01.07.2025	M4
10023	I	Motor 3		OK		Carol Gumede 425280 01.07.2025	M4
10024	R	[-11XR3 connector (local: UND - 11XP3_2.X1 pin 1)] connected to: [-11XT3 motor terminals (U) -11M3].		OK		Carol Gumede 425280 01.07.2025	M4
10025	R	[-11XR3 connector (local: UND - 11XP3_2.X2 pin 1)] connected to: [-11XT3 motor terminals (V) -11M3].		OK		Carol Gumede 425280 01.07.2025	M4
10026	R	[-11XR3 connector (local: UND - 11XP3_2.X3 pin 1)] connected to: [-11XT3 motor terminals (W) -11M3].		OK		Carol Gumede 425280 01.07.2025	M4
10027	R	-11M3 Motor terminals PE connected to -11GND3.		OK		Carol Gumede 425280 01.07.2025	M4
10028	I	Motor 4		OK		Carol Gumede 425280 01.07.2025	M4

10029	R	[-11XR4 connector (local: UND - 11XP4_2.X1 pin 1)] connected to: [-11XT4 motor terminals (U) -11M4].		OK		Carol Gumede 425280 01.07.2025	M4
10030	R	[-11XR4 connector (local: UND - 11XP4_2.X2 pin 1)] connected to: [-11XT4 motor terminals (V) -11M4].		OK		Carol Gumede 425280 01.07.2025	M4
10031	R	[-11XR4 connector (local: UND - 11XP4_2.X3 pin 1)] connected to: [-11XT4 motor terminals (W) -11M4].		OK		Carol Gumede 425280 01.07.2025	M4
10032	R	-11M4 Motor terminals PE connected to -11GND.		OK		Carol Gumede 425280 01.07.2025	M4

Section 6 – Report summaries

6.1 Results status

Test Instruction Sheet	Compliant	Incomplete	Non-compliant
Protective Bonding and Return Current	X		
Reflectometry	X		
Config	X		
Traction Motors	X		

6.2 Tools used

Function	Tool name	Tool number	Next Calibration date
012_PB	Megger	Megger	8/25/2025
025_NET_054_PIS	Cable Analyser DSX5000	Fluke machine_Gibela	12/31/2025
CONFIG	Multimeter	Multimeter 2	9/30/2025