PROJECT	CUSTOMER	VEHICLE
Xtrapolis-PRASA	**PRASA**	**204 – M4 – VPT**

RTR Vehicle Pre-Testing TS204 M4 Report
GIB0000006128

	CREATED	VERIFIED	APPROVED	DISTRIBUTION		
Name	Tshegofatso SETSHOGWE	Nkululeko NDOVELA	Kgomotso NKOANA	Confidentiality Category *Restricted* ☐	*Project* ☐	*Normal* ☑
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Table of modifications

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Internal validations

	Name	Function	Date	Signature
Creator	Tshegofatso SETSHOGWE	EPU Manager	9/02/2024	X _____ Tshegofatso SETSHOGWE EPU Manager
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Execution Plan

Start Date	30/01/2024
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Serial Tests Report
TS204 – M4 – VPT
RTR Vehicle Pre-Testing Report

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Section 1 – Purpose / Objectives

Section 2 – Protective Bonding and Return Current

2.3 Instructions list

2.3.1 012_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		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10003	A	Use the Tool List to record the serial number of the Ohmmeter that will be used in this test		OK		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10009	R	All the earthing cables of the M4 car are disconnected		OK		Paseka Ditlhakanyane - 491468	M4
10010	A	Connect the earthing cable of the 1st axle in the 1st Bogie Frame		OK		Paseka Ditlhakanyane - 491468	M4

10011	R	Only the earthing cable of the 1st axle of the 1st Bogie Frame is connected		OK		Paseka Ditlhakanyane - 491468	M4
10012	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Paseka Ditlhakanyane - 491468	M4
10013	R	Impedance Result Max : x <= 0.05 (Ohm)		OK	0.0043	Paseka Ditlhakanyane - 491468	M4
10014	A	Disconnect the earthing cable of the 1st axle of the 1st bogie frame		OK		Paseka Ditlhakanyane - 491468	M4
10015	R	Earthing cable disconnected		OK		Paseka Ditlhakanyane - 491468	M4
10016	A	Connect the earthing cable of the 2nd axle in the 1st Bogie Frame		OK		Paseka Ditlhakanyane - 491468	M4
10017	R	Only the earthing cable of the 2nd axle of the 1st Bogie Frame is connected		OK		Paseka Ditlhakanyane - 491468	M4
10018	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Paseka Ditlhakanyane - 491468	M4
10019	R	Impedance Result Max : x <= 0.05 (Ohm)		OK	0.0044	Paseka Ditlhakanyane - 491468	M4
10020	R	Earthing cable disconnected		OK		Paseka Ditlhakanyane - 491468	M4
10021	A	Disconnect the earthing cable of the 2nd axle of the 1st bogie frame		OK		Paseka Ditlhakanyane - 491468	M4
10022	I	Earthing of Equipment on the Underframe		OK		Paseka Ditlhakanyane - 491468	M4
10023	A	Connect the earthing cable of the 1st axle in the 2nd Bogie Frame		OK		Paseka Ditlhakanyane - 491468	M4
10024	R	Only the earthing cable of the 1st axle of the 2nd Bogie Frame is connected		OK		Paseka Ditlhakanyane - 491468	M4
10025	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Paseka Ditlhakanyane - 491468	M4
10026	R	Impedance Result Max : x <= 0.05 (Ohm)		OK	0.0036	Paseka Ditlhakanyane - 491468	M4
10027	A	Disconnect the earthing cable of the 1st axle of the 2nd bogie frame		OK		Paseka Ditlhakanyane - 491468	M4
10028	R	Earthing cable disconnected		OK		Paseka Ditlhakanyane - 491468	M4
10029	A	Connect the earthing cable of the 2nd axle in the 2nd Bogie Frame		OK		Paseka Ditlhakanyane - 491468	M4

10030	R	Only the earthing cable of the 1st axle of the 2nd Bogie Frame is connected		OK		Paseka Ditlhakanyane - 491468	M4
10031	A	Using an ohmmeter measure the impedance between the car body to rail		OK		Paseka Ditlhakanyane - 491468	M4
10032	R	Impedance Result Max : x <= 0.05 (Ohm)		OK	0.0039	Paseka Ditlhakanyane - 491468	M4
10033	A	Reconnect all earthing cables of the 1st and 2nd axle of the 1st and 2nd Bogie Frame		OK		Paseka Ditlhakanyane - 491468	M4
10034	R	All earthing cables connected on the 1st and 2nd Bogie Frame		OK		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10036	R	Traction Inverter Case visually grounded and torque is correctly marked		OK		Paseka Ditlhakanyane - 491468	M4
10037	A	Using an ohmmeter measure the impedance between the Traction Inverter Case and the car body		OK		Paseka Ditlhakanyane - 491468	M4
10038	R	Impedance Result Max : x <= 0.05 (Ohm)		OK	0.0037	Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10040	R	Line Inductor Case visually grounded and torque is correctly marked		OK		Paseka Ditlhakanyane - 491468	M4
10041	A	Using an ohmmeter measure the impedance between the Line Inductor Case and the car body		OK		Paseka Ditlhakanyane - 491468	M4
10042	R	Impedance Result Max : x <= 0.05 (Ohm)		OK	0.0039	Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10044	R	Traction Motors visually grounded and torque is correctly marked		OK		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10046	R	Impedance Result Max : x <= 0.05 (Ohm)		OK	0.0038	Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10048	R	Traction Motors visually grounded and torque is correctly marked		OK		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10050	R	Impedance Result Max : x <= 0.05 (Ohm)		OK	0.0036	Paseka Ditlhakanyane - 491468	M4
10051	I	Earthing of Interior Equipment		OK		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10053	R	LV3 cubicle visually grounded and torque is correctly marked		OK		Paseka Ditlhakanyane - 491468	M4
10054	A	Using an ohmmeter measure the impedance between the LV3 cubicle and the car body		OK		Paseka Ditlhakanyane - 491468	M4
10055	R	Impedance Result Max : x <= 0.05 (Ohm)		OK	0.0041	Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10057	R	LV6 cubicle visually grounded and torque is correctly marked		OK		Paseka Ditlhakanyane - 491468	M4
10058	A	Using an ohmmeter measure the impedance between the LV6 cubicle and the car body		OK		Paseka Ditlhakanyane - 491468	M4
10059	R	Impedance Result Max : x <= 0.05 (Ohm)		OK	0.0043	Paseka Ditlhakanyane - 491468	M4

10060	I	Earthing of Equipment on the Roof		OK		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10062	R	1st Braking Resistor Box visually grounded and torque is correctly marked		OK		Paseka Ditlhakanyane - 491468	M4
10063	A	Using an ohmmeter measure the impedance between the 1st Braking Resistor Box and the car body		OK		Paseka Ditlhakanyane - 491468	M4
10064	R	Impedance Result Max : x <= 0.05 (Ohm)		OK	0.0043	Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10066	R	Saloon HVAC visually grounded and torque is correctly marked		OK		Paseka Ditlhakanyane - 491468	M4
10067	A	Using an ohmmeter measure the impedance between the Saloon HVAC and the car body		OK		Paseka Ditlhakanyane - 491468	M4
10068	R	Impedance Result Max : x <= 0.05 (Ohm)		OK	0.0044	Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10070	R	2nd Braking Resistor Box visually grounded and torque is correctly marked		OK		Paseka Ditlhakanyane - 491468	M4
10071	A	Using an ohmmeter measure the impedance between the 1st Braking Resistor Box and the car body		OK		Paseka Ditlhakanyane - 491468	M4
10072	R	Impedance Result Max : x <= 0.05 (Ohm)		OK	0.0043	Paseka Ditlhakanyane - 491468	M4

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Section 3 – Config

3.3 Instructions list

3.3.1 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		Sithembile Xulu - 416253	M4
10002	A	Check continuity on all pins of End 1 connector 90XP15 & 90XP14 to ground		OK		Sithembile Xulu - 416253	M4
10003	R	There is no continuity		OK		Sithembile Xulu - 416253	M4
10004	A	Check continuity on all pins of End 2 connector 90XP15 & 90XP14 to ground		OK		Sithembile Xulu - 416253	M4
10005	R	There is no continuity		OK		Sithembile Xulu - 416253	M4
10006	I	Fire Detection_67		OK		Sithembile Xulu - 416253	M4
10007	I	Smoke Detector Address Configuration		OK		Sithembile Xulu - 416253	M4
10008	A	Remove and configure the Smoke Detector 67A2 (+PA1) according to the figure below		OK		Sithembile Xulu - 416253	M4
10009	A	Reconnect Smoke Detector 67A2		OK		Sithembile Xulu - 416253	M4
10010	A	Remove and configure the Smoke Detector 67A3 (+PA3) according to the figure below		OK		Sithembile Xulu - 416253	M4
10011	I	Line Heat Detection		OK		Sithembile Xulu - 416253	M4
10012	R	Measure the resistance between point 1 and point 4 of the connector 67XP3_11 Result Min/Max : 550<= x<= 700 (Ohms)		OK	606	Sithembile Xulu - 416253	M4
10013	A	Reconnect Smoke Detector 67A3		OK		Sithembile Xulu - 416253	M4
10014	I	OTDR LOOP		OK		Sithembile Xulu - 416253	M4

10015	I	Check the continuity between the following points:		OK		Sithembile Xulu - 416253	M4
10016	A	From: [+IV1 (local: +END1 Connector - 90XR13.B (pin1))] to: [local: +END2 Connector -90XP23.b(pin1)]		OK		Sithembile Xulu - 416253	M4
10017	A	From: [-IV1 (local: +END1 Connector - 90XR13.B (pin2))] to: [local: +END2 Connector -90XP23.b (pin2)]		OK		Sithembile Xulu - 416253	M4

Section 4 – Traction Motors

4.3 Instructions list

4.3.1 011_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		Paseka Ditlhakanyane - 491468	M4
10002	I	Ensure all the CONNECTORS are fully ASSEMBLED before running a continuity test.		OK		Paseka Ditlhakanyane - 491468	M4
10003	I	The following test is used to confirm the wiring of the traction motors.		OK		Paseka Ditlhakanyane - 491468	M4
10004	I	SAFETY NOTICE: It is important to ensure that there is no 400Vac power supply on the vehicle.		OK		Paseka Ditlhakanyane - 491468	M4
10005	A	Switch OFF the 400Vac power supply at the source and disconnect the supply cables from the vehicle		OK		Paseka Ditlhakanyane - 491468	M4
10006	R	There is no 400Vac available on the vehicle		OK		Paseka Ditlhakanyane - 491468	M4
10007	I	Bogie 1 (MB1)		OK		Paseka Ditlhakanyane - 491468	M4
10008	I	Visual Inspection		OK		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10010	I	Motor 2		OK		Paseka Ditlhakanyane - 491468	M4
10011	R	[-11XR2 connector (local: UND - 11XP2_2.X1 pin 1)] connected to: [-11XT2 motor terminals (U) -11M2].		OK		Paseka Ditlhakanyane - 491468	M4
10012	A	Cable 11X2_2.X1 pin 1 is connected to 11XT2.		OK		Paseka Ditlhakanyane - 491468	M4
10013	R	[-11XR2 connector (local: UND - 11XP2_2.X2 pin 1)] connected to: [-		OK		Paseka Ditlhakanyane - 491468	M4

		11XT2 motor terminals (V) -11M2].					
10014	R	[-11XR2 connector (local: UND - 11XP2__2.X3 pin 1)] connected to: [- 11XT2 motor terminals (W) -11M2].		OK		Paseka Ditlhakanyane - 491468	M4
10015	R	-11M2 Motor terminals PE connected to - 11GND2.		OK		Paseka Ditlhakanyane - 491468	M4
10016	I	Motor 1		OK		Paseka Ditlhakanyane - 491468	M4
10017	R	[-11XR1 connector (local: UND - 11XP1__2.X1 pin 1)] connected to: [- 11XT1 motor terminals (U) -11M1].		OK		Paseka Ditlhakanyane - 491468	M4
10018	R	[-11XR1 connector (local: UND - 11XP1__2.X2 pin 1)] connected to: [- 11XT1 motor terminals (V) -11M1].		OK		Paseka Ditlhakanyane - 491468	M4
10019	R	[-11XR1 connector (local: UND - 11XP1__2.X3 pin 1)] connected to: [- 11XT1 motor terminals (W) -11M1].		OK		Paseka Ditlhakanyane - 491468	M4
10020	R	-11M1 Motor terminals PE connected to - 11GND.		OK		Paseka Ditlhakanyane - 491468	M4
10021	I	Bogie 2 (MB2)		OK		Paseka Ditlhakanyane - 491468	M4
10022	I	Visual Inspection		OK		Paseka Ditlhakanyane - 491468	M4
10023	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		Paseka Ditlhakanyane - 491468	M4
10024	I	Motor 3		OK		Paseka Ditlhakanyane - 491468	M4
10025	R	[-11XR3 connector (local: UND - 11XP3__2.X1 pin 1)] connected to: [- 11XT3 motor terminals (U) -11M3].		OK		Paseka Ditlhakanyane - 491468	M4
10026	R	[-11XR3 connector (local: UND - 11XP3__2.X2 pin 1)] connected to: [- 11XT3 motor terminals (V) -11M3].		OK		Paseka Ditlhakanyane - 491468	M4
10027	R	[-11XR3 connector (local: UND - 11XP3__2.X3 pin 1)] connected to: [- 11XT3 motor terminals (W) -11M3].		OK		Paseka Ditlhakanyane - 491468	M4

10028	R	-11M3 Motor terminals PE connected to -11GND3.		OK		Paseka Ditlhakanyane - 491468	M4
10029	I	Motor 4		OK		Paseka Ditlhakanyane - 491468	M4
10030	R	[-11XR4 connector (local: UND - 11XP4_2.X1 pin 1)] connected to: [-11XT4 motor terminals (U) -11M4].		OK		Paseka Ditlhakanyane - 491468	M4
10031	R	[-11XR4 connector (local: UND - 11XP4_2.X2 pin 1)] connected to: [-11XT4 motor terminals (V) -11M4].		OK		Paseka Ditlhakanyane - 491468	M4
10032	R	[-11XR4 connector (local: UND - 11XP4_2.X3 pin 1)] connected to: [-11XT4 motor terminals (W) -11M4].		OK		Paseka Ditlhakanyane - 491468	M4
10033	R	-11M4 Motor terminals PE connected to -11GND.		OK		Paseka Ditlhakanyane - 491468	M4

Section 5 – Reflectometry

5.3 Instructions list

5.3.1 025_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		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10003	I	The Cable Analyzer Module DSX-5000 will be used to validate cabling		OK		Paseka Ditlhakanyane - 491468	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		OK		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10006	I	TCMS cabling		OK		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4

10009	A	From: [25A14 TBR (Local: +LV3; Connector: 25XP14_ETH0)] to: [(Local: +END1; Connector: 90XR11.All)] NOTE: Cable is crossed TSX_M4_T03		OK		Paseka Ditlhakanyane - 491468	M4
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		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10014	I	Pacis cabling		OK		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	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		Paseka Ditlhakanyane - 491468	M4
10017	A	From: [54A11 SWITCH ETHERNET (CRS2) (Local: +LV6; Connector: 54XP11_X8)] to: [(Local: +END2; Connector: -90XP22.ell)]		OK		Paseka Ditlhakanyane - 491468	M4

		NOTE: Cable is straight TSX_M4_P03					
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		Paseka Ditlhakanyane - 491468	M4
10019	A	All cables have been validated on M4		OK		Paseka Ditlhakanyane - 491468	M4
10020	R	Download all the results from Fluke and save them on PC with folder name "M4_TSxx"		OK		Ntobeko Ndlovu - 421595	M4
10021	R			OK		Paseka Ditlhakanyane - 491468	M4

Section 6 – Report summaries

6.2 Results status

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

Vehicle	Equipment	Expected version	Version loaded
M4			