

X'TRAPOLIS MEGA

SUMMARY REPORT

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RELEASED

X'TRAPOLIS MEGA

Application: **PRASA**

Technical Modifications

Geometric tolerances

A4

N

Replaces:

Replaced by:

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Creation

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Prepared

05/02/2026

K. NKOANA

Checked

05/02/2026

F. TSHIOVHE

Approved

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S. LUKHELE

Date

Name

en

Summary Report of open items from
TS321 Routine and Acceptance
Testing

**GIBELQ**

GIB0000009166

Rev.:
A0

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Table of Modifications

Rev	Date	Modifications Content	Writer
A0	05/02/2026	Creation	Kgomotso NKOANA

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Internal Validation

	Name	Function	Date	Signature
Writer	Kgomotso NKOANA	Test Expert	05/02/2026	X  Kgomotso NKOANA Test Expert
Checker	Fhatuwane TSHIOVHE	Test Engineering Manager	05/02/2026	X F.k Tshiove.. Fhatuwane TSHIOVHE Test Engineering Manager
Approver	Sifiso LUKHELE	T&C HoD	05/02/2026	X  Sifiso LUKHELE T&C HoD

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1 INTRODUCTION

For the PRASA project Gibela has implemented an exhaustive test program to perform the static routine testing at vehicle and train level including the dynamic routine test schedules. After the handover of each car from production to testing, the train is progressively coupled to formulate a six-car trainset. In parallel to the coupling activities Vehicle Functional Stating Testing is performed individually on the six cars. Static testing is continued to Train Functional Level.

After the static tests have been performed, the Dynamic Test is done on a 1.2 km test track in the Dunnottar Dynamic Test Track to verify all the safety functions of the train up to 60 km/h. The train is then transported to Wolmerton Depot for the final high speed acceptance test and handover to the customer.

2 SCOPE

The purpose of this document is to summarize the test results of the different test schedules.

The complete test report for each test schedule including all the test steps with respect to the pass/fail criteria will be submitted.

3 TEST CONDITIONS

Vehicles Tested

TS321 is composed of vehicles:

- TC1# 01 20 321 1
- M4 # 01 20 321 2
- M1 # 01 20 321 3
- M2 # 01 20 321 4
- M3 # 01 20 321 5
- TC2 # 01 20 321 6

Test Schedule

The tests were performed following the Routine Test Schedules

- | | |
|---|----------------------|
| ➤ Vehicle Pre- Testing TC1 (VPT) | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing TC2 (VPT) | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing M1 (VPT) | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing M2 (VPT) | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing M3 (VPT) | GIB0000001465 rev D2 |
| ➤ Vehicle Pre- Testing M4 (VPT) | GIB0000001465 rev D2 |
| ➤ Vehicle Functional Testing TC1 (VFT) | GIB0000001462 rev D2 |
| ➤ Vehicle Functional Testing TC2 (VFT) | GIB0000001463 rev D1 |
| ➤ Vehicle Functional Testing M1 (VFT) | GIB0000001464 rev D2 |
| ➤ Vehicle Functional Testing M2 (VFT) | GIB0000001465 rev D2 |
| ➤ Vehicle Functional Testing M3 (VFT) | GIB0000001466 rev D1 |
| ➤ Vehicle Functional Testing M4 (VFT) | GIB0000001467 rev D1 |
| ➤ Train Functional Routine Static Testing (TFS) | GIB0000001273rev D0 |
| ➤ Train Functional Dynamic Testing (TFD) | GIB0000001029 rev D2 |
| ➤ Acceptance Test on Customer Track (ACT) | GIB0000000312 rev D3 |

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General test conditions

No specific ambient conditions were mandatory during testing.

Static and Dynamic Test location

The tests were conducted at the Gibela Dunnottar factory in South Africa

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Test participants

Last Name	First Name	Company	Occupation
MERAPE	Mavis	Gibela	EPU Manager
ZULU	Vusumuzi	Gibela	EPU Manager
MABUNDA	Neliswa	Gibela	EPU Manager
MASONDO	Nhlakanipho	Gibela	EPU Manager
MCHUNU	Siphesihle	Gibela	Test Technician
SOKHELA	Celiwe	Gibela	Test Technician
MDLULI	Nokuzola	Gibela	Test Technician
DITLHAKANYANE	Paseka	Gibela	Test Technician
BALISO	Gcobani	Gibela	Test Technician
SHINGA	Sthabile	Gibela	Test Technician
MABUNDZANE	Nick	Gibela	Test Technician
GUMEDE	Carol	Gibela	Test Technician
MTHEMBU	Mvelo	Gibela	Test Technician
MILANI	Philemon	Gibela	Test Technician
KHOSA	Tshembhani	Gibela	Test Technician
TSELA	Impi	Gibela	Test Technician
MABOWA	Anthonia	Gibela	Test Technician
FUNYUFUNYU	Mbavhalelo	Gibela	Test Technician
CHIRWA	NQOBILE	Gibela	Test Technician
SIBANYONI	Sizwe	Gibela	Test Technician
TIVANI	Angel	Gibela	Test Technician
SEKGOLOLO	Alleta	Gibela	Test Technician
SITHOLE	Mpumelelo	Gibela	Test Technician
SITHOLE	Mlungisi	Gibela	Test Technician
KGATITSWE	Goitsemodimo	Gibela	Test Technician
MKHWA	Sinazo	Gibela	Test Technician
MTHOMBENI	Tebogo	Gibela	Test Technician
MPHAHLELE	Mphato	Gibela	Test Technician
MTOLO	Sicelo	Gibela	Test Technician
NGUBANE	Dilikani	Gibela	Test Technician
NTULI	Amanda	Gibela	Test Technician

Routine test Period

The routine test was performed from the 24th of January 2026 until the 04th of February 2026 in Dunnottar.

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Acceptance Test location

High-Speed Acceptance Test on the Customer Main Line (De-Wildt), The dynamic performance to be validated to a maximum speed of 60km/h inclusive, ensuring compliance to service, emergency and degraded mode braking performance.

Acceptance Test participants

Last Name	First Name	Company	Position
TBA			

Acceptance Test period

The High speed Acceptance test to be performed in Wolmerton, Customer Main Line (De-Wildt).

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4 TEST RESULTS

Vehicle Pre-Testing

RTR Vehicle Pre-Testing TS321 TC1 Report	GIB0000009161 rev A0
RTR Vehicle Pre-Testing TS321 TC2 Report	GIB0000009162 rev A0
RTR Vehicle Pre-Testing TS321 M1 Report	GIB0000009157 rev A0
RTR Vehicle Pre-Testing TS321 M2 Report	GIB0000009158 rev A0
RTR Vehicle Pre-Testing TS321 M3 Report	GIB0000009159 rev A0
RTR Vehicle Pre-Testing TS321 M4 Report	GIB0000009160 rev A0
All test steps were performed and passed successfully	

Vehicle Functional Testing

RTR Vehicle Functional Static Testing TS321 TC1 Report	GIB0000009155 rev A0
RTR Vehicle Functional Static Testing TS321 TC2 Report	GIB0000009156 rev A0
RTR Vehicle Functional Static Testing TS321 M1 Report	GIB0000009151 rev A0
RTR Vehicle Functional Static Testing TS321 M2 Report	GIB0000009152 rev A0
RTR Vehicle Functional Static Testing TS321 M3 Report	GIB0000009153 rev A0
RTR Vehicle Functional Static Testing TS321 M4 Report	GIB0000009154 rev A0
All test steps were performed and passed successfully	

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Train Functional Static Testing

RTR Train Functional Static Testing TS321 Report GIB0000009163 rev A0

All test steps were performed and passed successfully

Train Functional Dynamic Testing

RTR Train Functional Dynamic Testing TS321 Report GIB0000009164 rev A0

All test steps were performed and passed successfully

Acceptance Test on Customer Track

RTR TS321 Acceptance Test on Customer Track test report GIB0000009165 rev A0

The High speed Acceptance test to be performed in Wolmerton, Customer Main Line (De-Wildt

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5 CONCLUSION AND RECOMMENDATION

All routine (works) tests have been performed and completed successfully.

The Acceptance Test on customer track that covers the high speed 120km/h and UHF radio functional tests will be performed in Wolmerton.

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