Dynamic Brake Test Report

SafeFleet Inspections (Pty) Ltd
Monday, 24 February, 2026 10:37:05 AM

Equipment Details

Date of Test:	Monday, 24 February, 2026 10:37:05 AM
Equipment Model:	NetBrake Nemesis V1.50
Application Version:	1.50
Serial Number:	7F3A12B4-CC81-4D9E-A2F7-3E6D91CB5E82
Last Calibrated:	Thursday, 19 February, 2026 09:14:22 AM
Test Number:	112

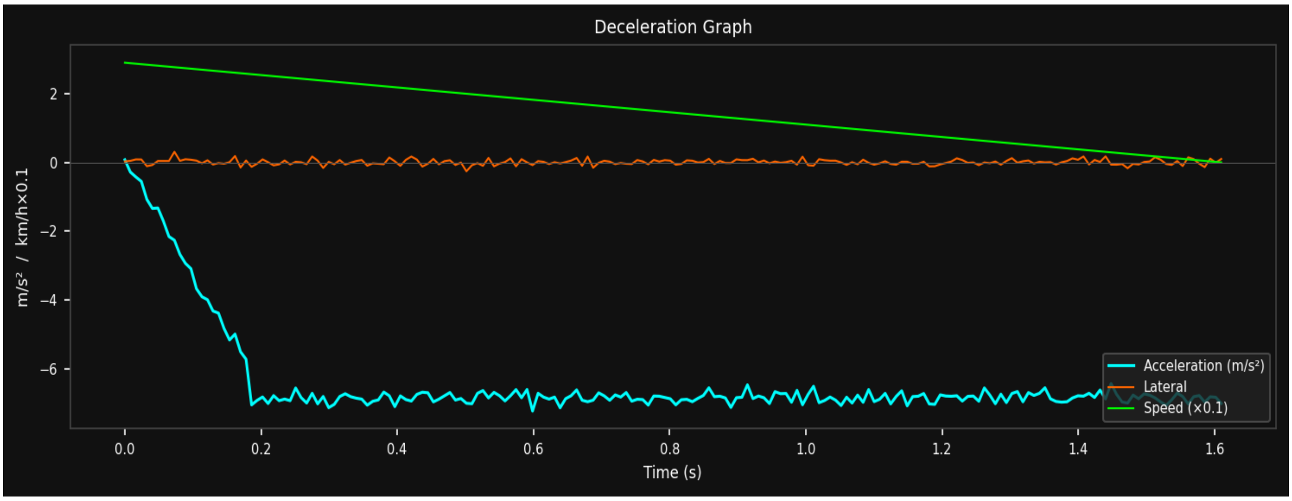
Vehicle Information

Vehicle Description:	Ford Ranger XLT 2.0 BiTurbo
Plant nr / Reg nr:	CAA 123 456
Vehicle Category:	Road Vehicle faster than 35 km/h
Hrs / Kms:	87 432 km
Test Type:	Service Brake Test
Gross Vehicle Mass:	3 500 kg
Actual Test Mass:	2 840 kg
Weight comp factor:	1.23
Site / Company:	ABC Logistics – Cape Town
Test Expiry Date:	Monday, 26 May, 2026

Procedure & Safety Checklist

Procedure Checklist		**Safety Checklist**	
Retarder de-activated if fitted?	X	No visible / audible leaks?	X
Test surface marked?	X	Same tire tread per axle?	X
Brake casing temp within OEM spec?	X	Bystanders notified of brake test?	X
Testing officer can prove competency?	X	Safe and level testing surface?	X
Tested below speed of 32 km/h?	X	Same tire size per axle?	X
Stopped the vehicle without skidding?	X	OEM training received?	X

Deceleration Graph



Test Results

TEST RESULT: PASS

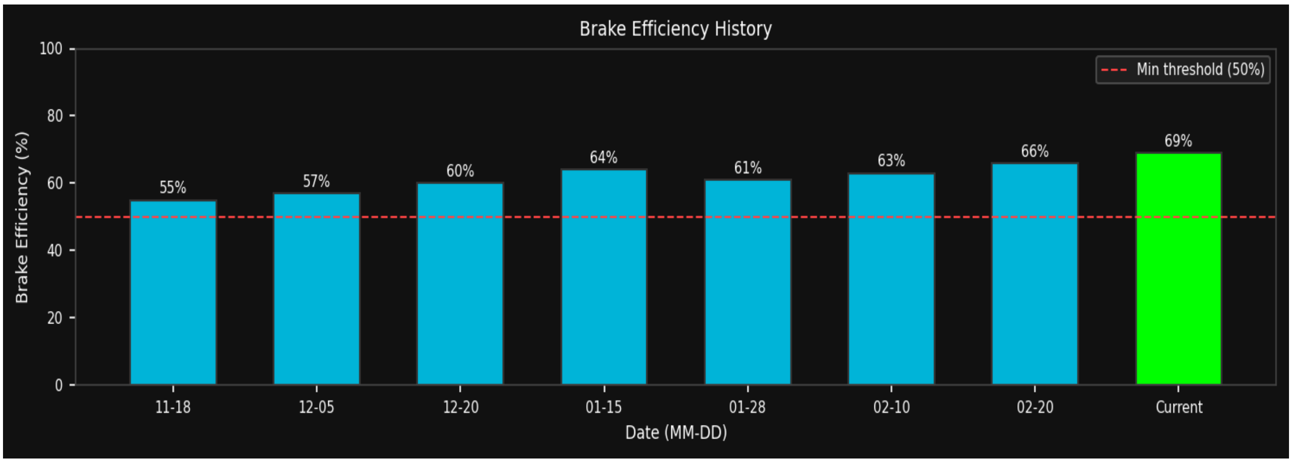
Mean Fully Developed Decel (MFDD):	6.84 m/s²
Average Deceleration:	5.12 m/s²
Brake Efficiency:	6.29 m/s² (69%) (FDMD + Avg Decel) / 2
Maximum Braking Force:	19 542 N
Brake Slope Capability:	62.1% (31.9 degrees)
Test Speed:	29 km/h
Stopping Time:	1.61 seconds
Stopping Distance:	6.47 metres
Location of Test:	Paarden Eiland Industrial, Cape Town

You can change the PASS/FAIL requirements under the OPTIONS menu

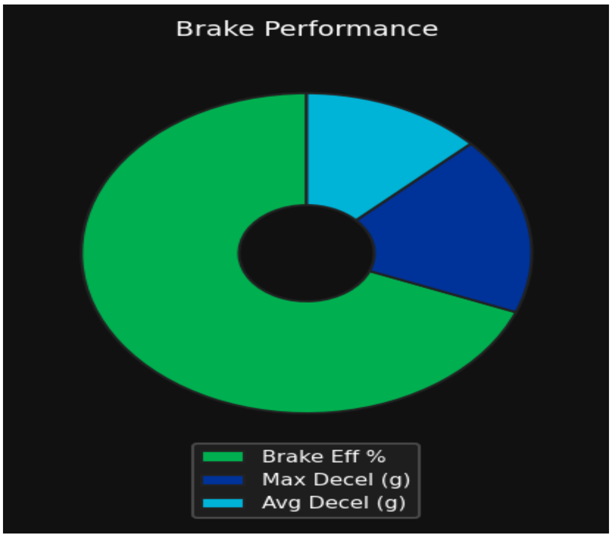
Test History

Date	Brake Eff. %	Avg Decel. (m/s²)	Speed (km/h)	Distance (m)
2026-02-20	66%	4.98 m/s²	28.4 km/h	6.61 m
2026-02-10	63%	4.71 m/s²	30.1 km/h	7.45 m
2026-01-28	61%	4.55 m/s²	27.8 km/h	7.12 m
2026-01-15	64%	4.80 m/s²	29.3 km/h	7.02 m
2025-12-20	60%	4.41 m/s²	26.9 km/h	6.93 m
2025-12-05	57%	4.22 m/s²	28.7 km/h	7.81 m
2025-11-18	55%	4.06 m/s²	27.2 km/h	7.65 m

Brake Efficiency History



Braking Balance



Braking Balance:	97.3%

Weight Compensated Results

	Brake efficiency %	Stopping distance
Actual results	69.0%	6.47 metres
Compensated	69.0%	6.47 metres

Theoretical Stopping Distances

Your stopping distance was **6.47 metres** on Asphalt at 29 km/h.
Your stopping distance would have been **6.47 metres** if tested laden at full gross vehicle weight.

Asphalt	Dirt	Gravel	Concrete	Mud/Clay
6.47 m	10.83 m	8.12 m	5.89 m	19.42 m

Additional Brake Information

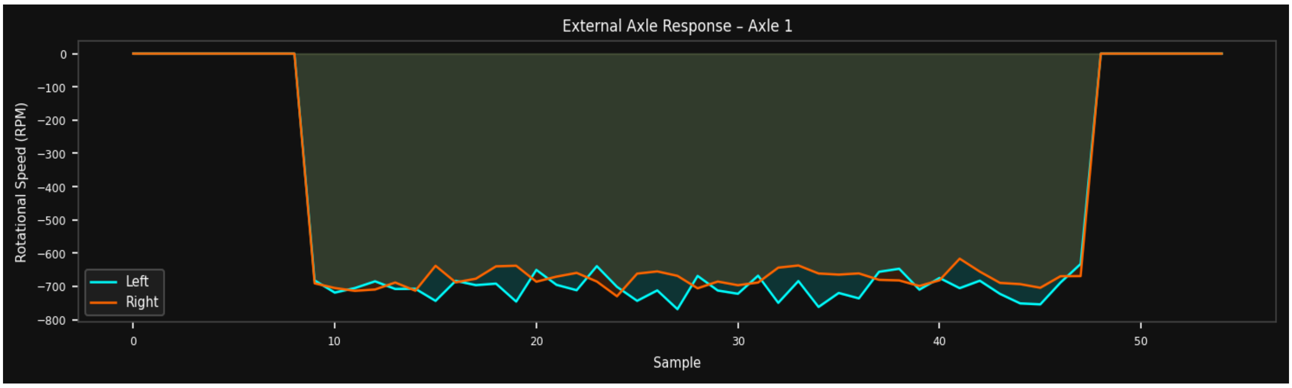
Brake Thermal Load	
3.7 kJ (Light load. Brakes are not being stressed.)	
Brake system is cool. Suitable for repeated testing.	

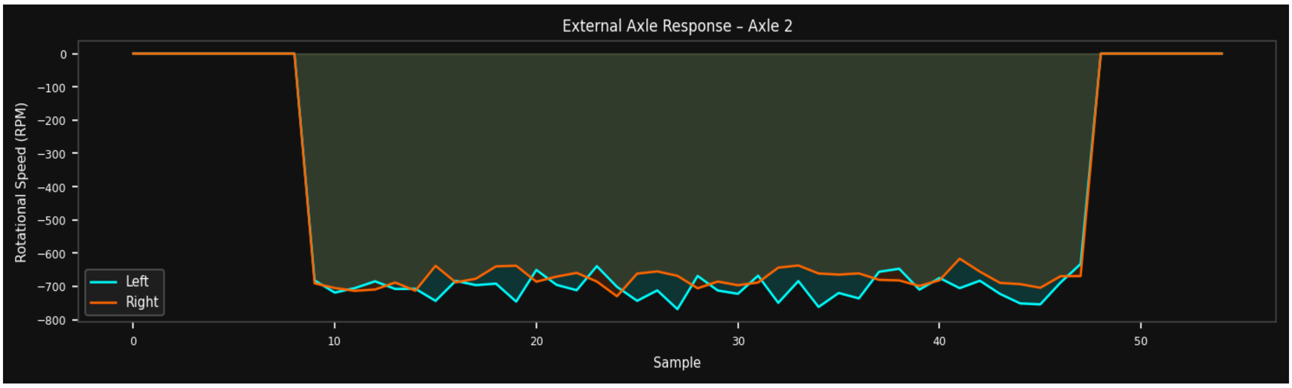
Braking Stability	
0.08 (Excellent. No significant lateral movement detected.)	
No lateral pull detected. Tire pressure and suspension within spec.	

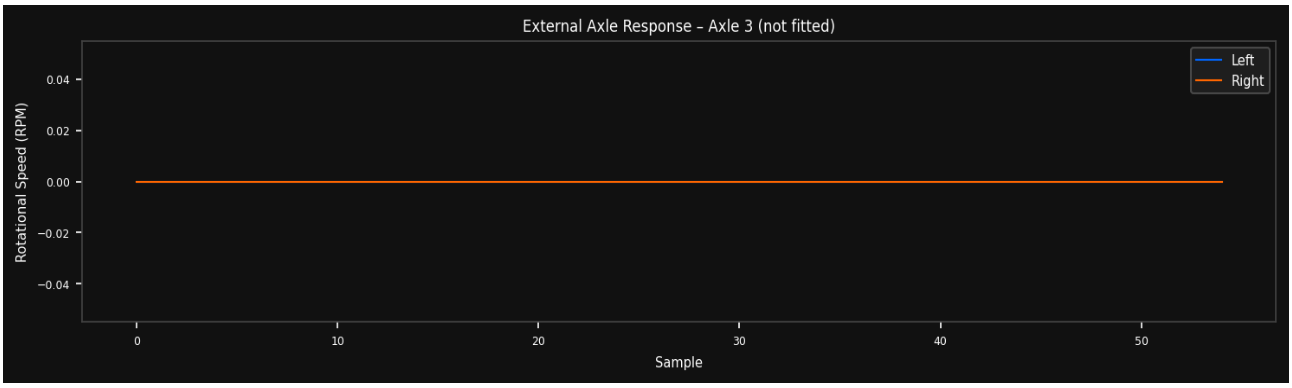
External Sensor Result Table

Axle	Left / Right	Average Deceleration (m/s^2)	Left/Right Difference %
1	Left	7.12 m/s^2	1.4%
1	Right	6.98 m/s^2	1.4%
2	Left	5.83 m/s^2	1.9%
2	Right	5.91 m/s^2	1.9%

External Sensor Response Charts







Examiner Information

Examiner:	J. van der Merwe
Testing Company:	SafeFleet Inspections (Pty) Ltd
OEM Training nr:	SF-2024-0317

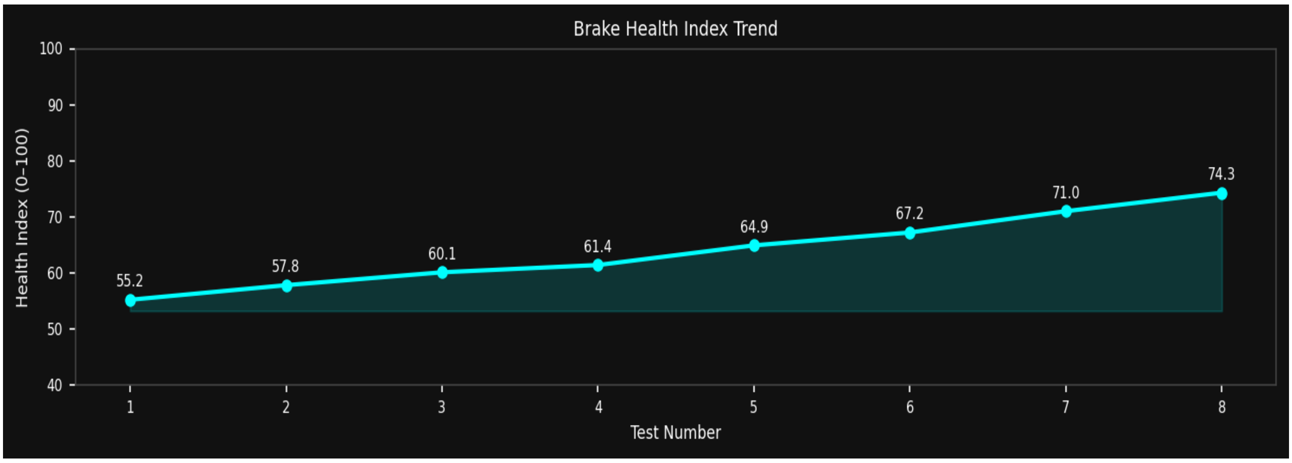
email info@amth.co.za to confirm Training nr validation

Examiner Signature:	

By signing this report, I acknowledge that I have read, understood and accept the disclaimer as available at **https://amth.co.za/disclaimer.html**

Diagnostic Analysis (Advisory Only)

Brake Health Index:	74.3 / 100
Performance Trend:	IMPROVING
Diagnostic Confidence:	85%
Anomalies Detected:	None



IMPORTANT: Diagnostic features are ADVISORY ONLY and do not replace professional inspection. These features analyse data patterns and provide insights, but cannot detect all potential brake system issues. Always follow regulatory requirements and perform physical inspections as required by law.