

Appendix A Repeated load triaxial test results

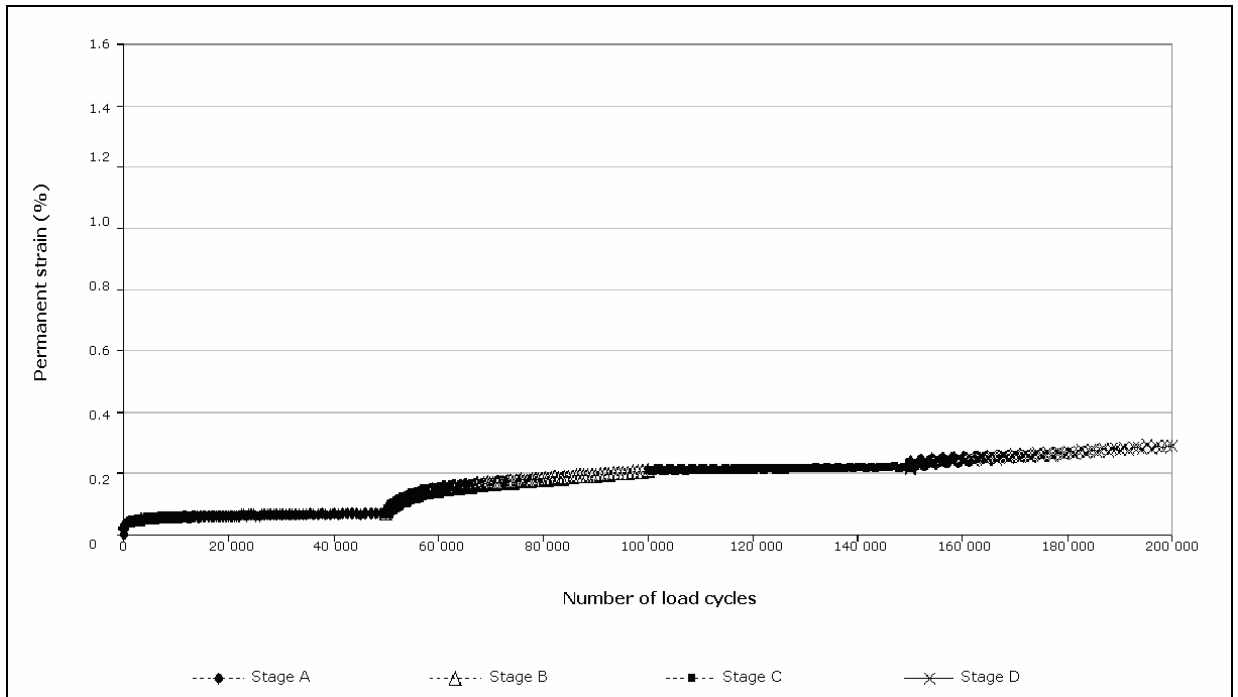


Figure A1 Test 1a: Material 1 (dry) - CAPTIF 1, 94% MDD, 65% OMC.

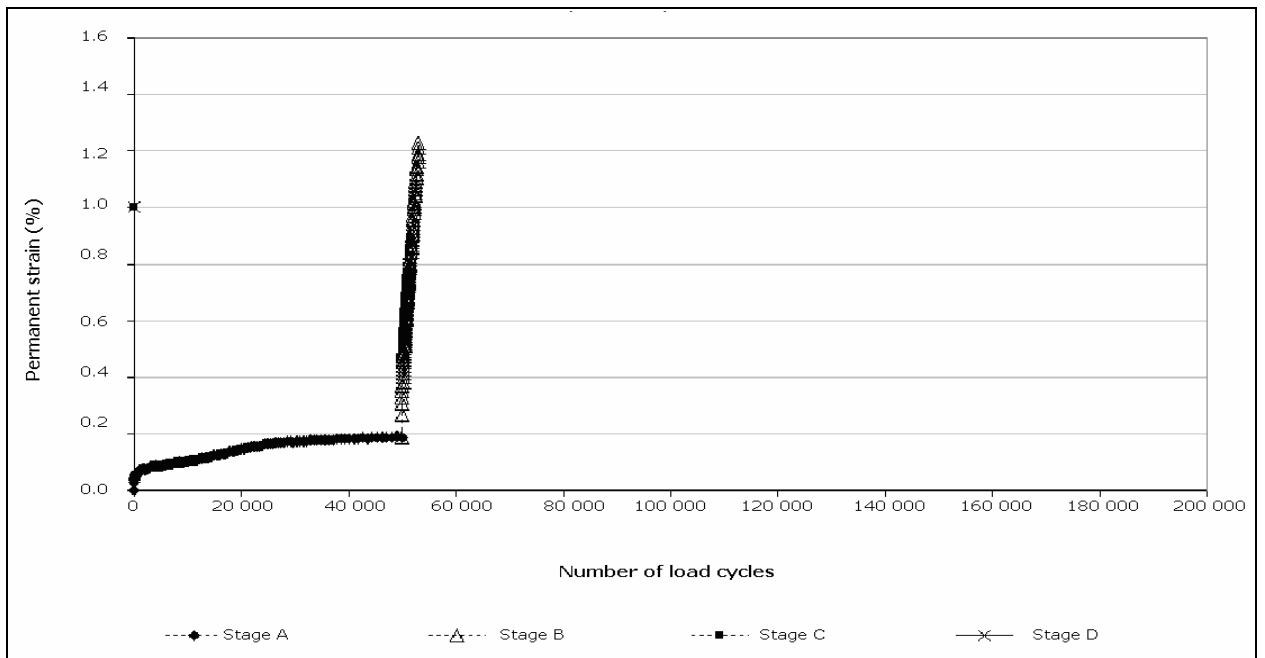


Figure A2 Test 1b: Material 1 (dry) - CAPTIF 1, 97% MDD, 73% OMC.

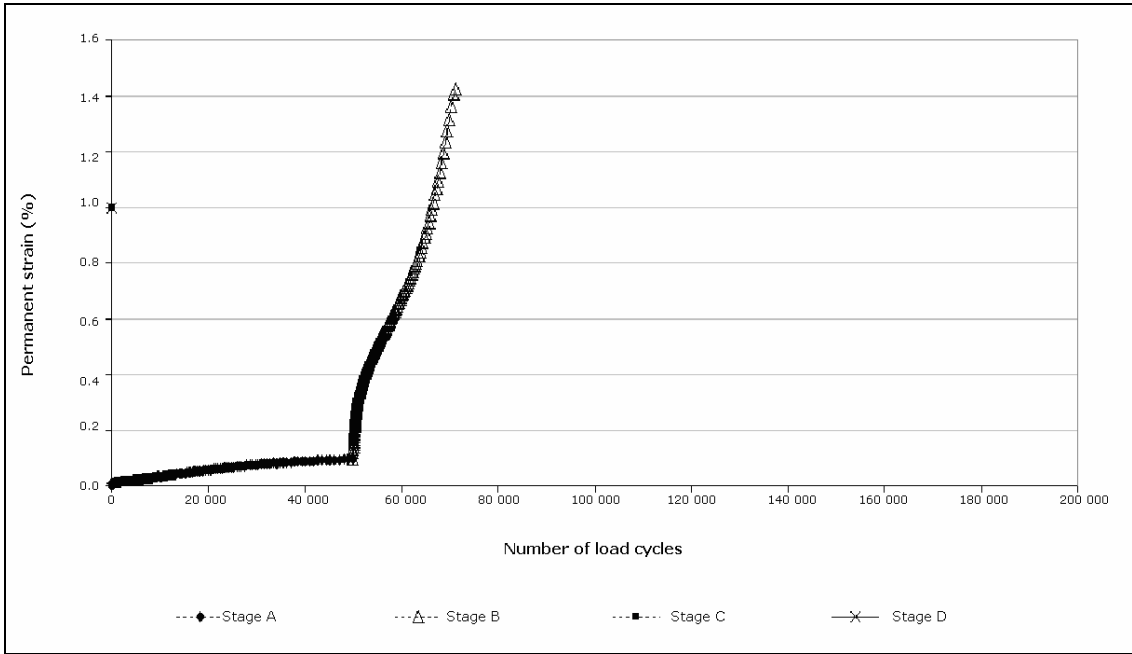


Figure A3 Test 1c: Material 1 (wet) - CAPTIF 1, 96% MDD, 85% OMC.

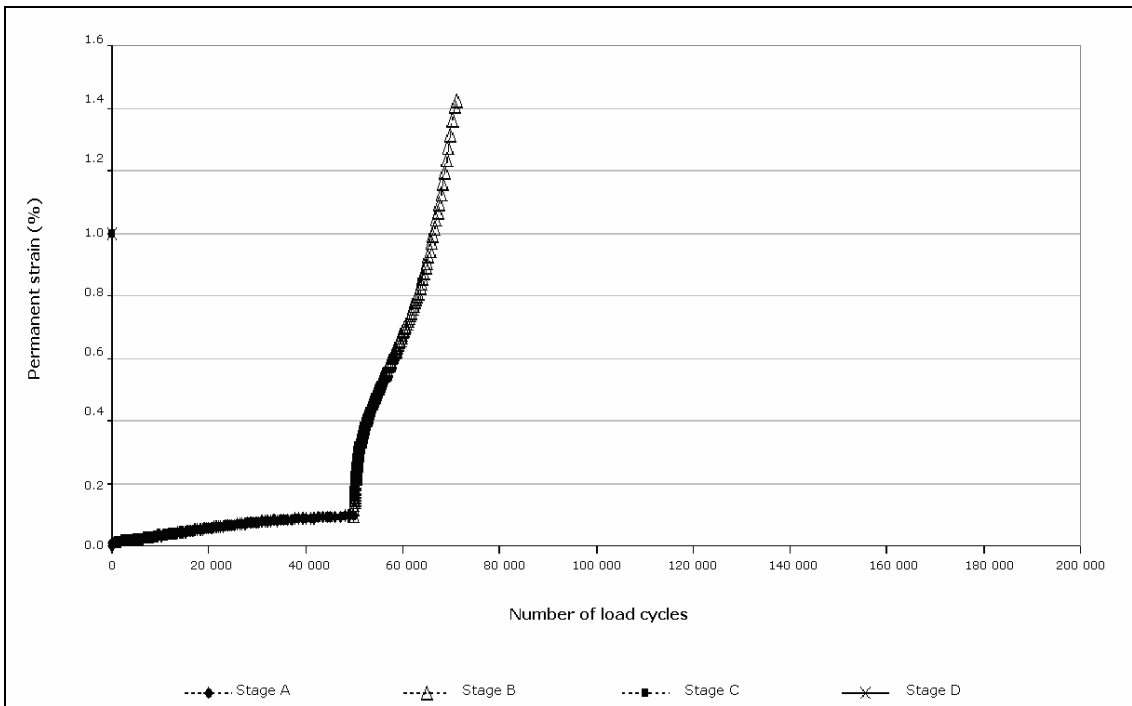


Figure A4 Test 2a: Material 2 (dry) - CAPTIF 2, 94% MDD, 64% OMC.

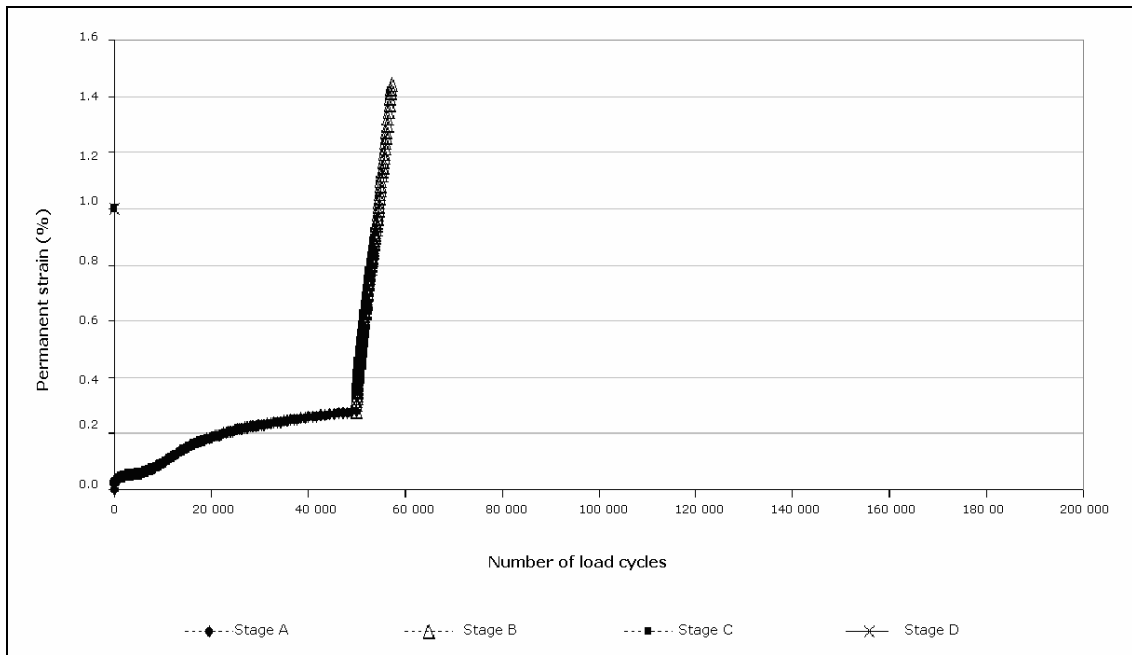


Figure A5 Test 2b: Material 2 (wet) - CAPTIF 2, 96% MDD, 78% OMC.

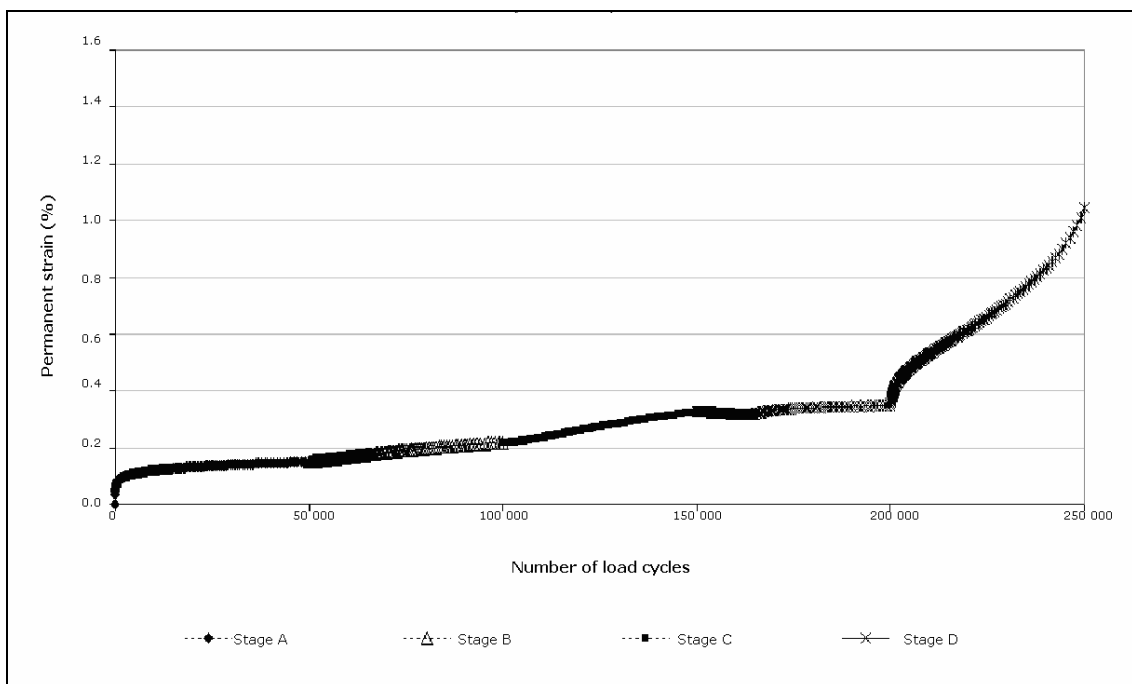


Figure A6 Test 2c: Material 2 (dry) - CAPTIF 2, 94% MDD, 68% OMC.

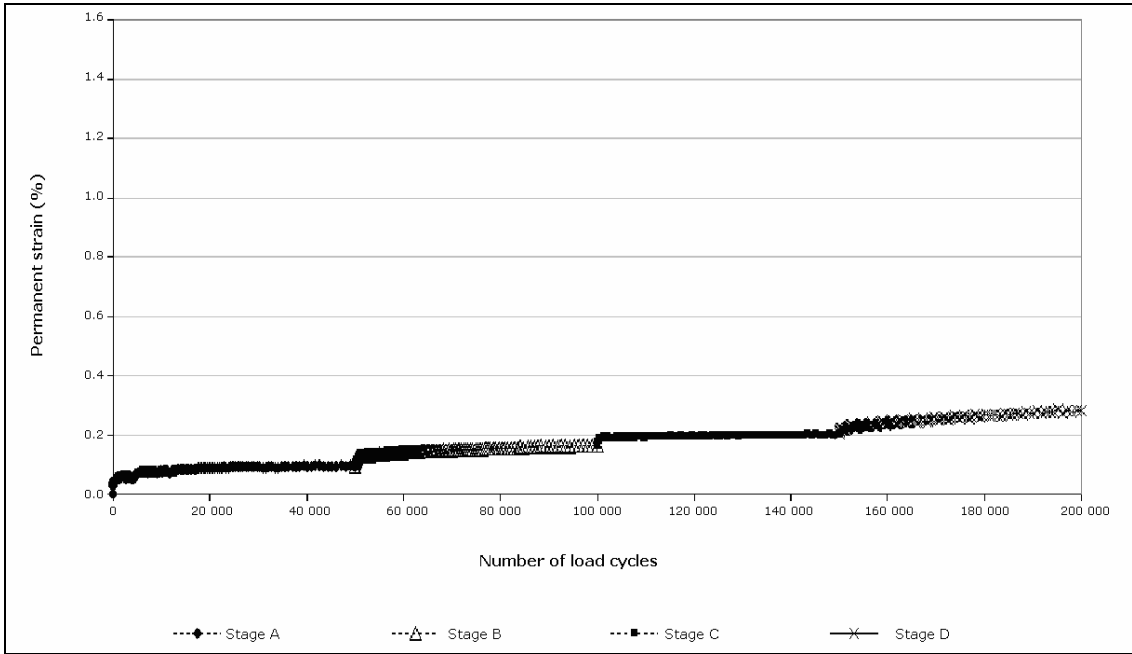


Figure A7 Test 3a: Material 3 (dry) - CAPTIF 4, 96% MDD, 63% OMC.

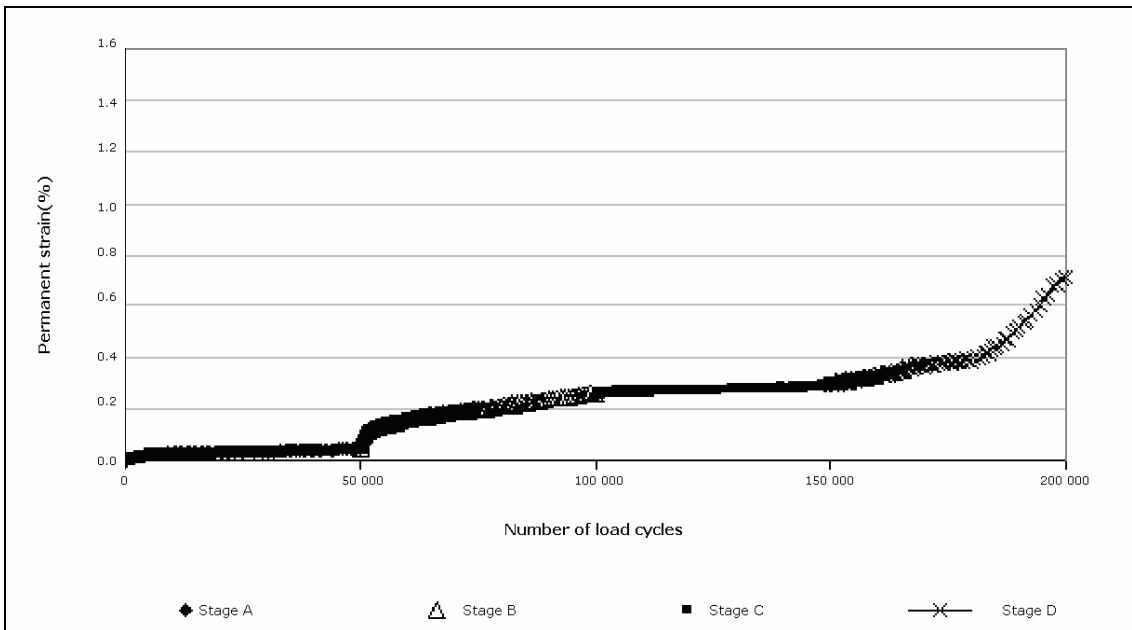


Figure A8 Test 3b: Material 3 (wet) - CAPTIF 4, 96% MDD, 85% OMC.

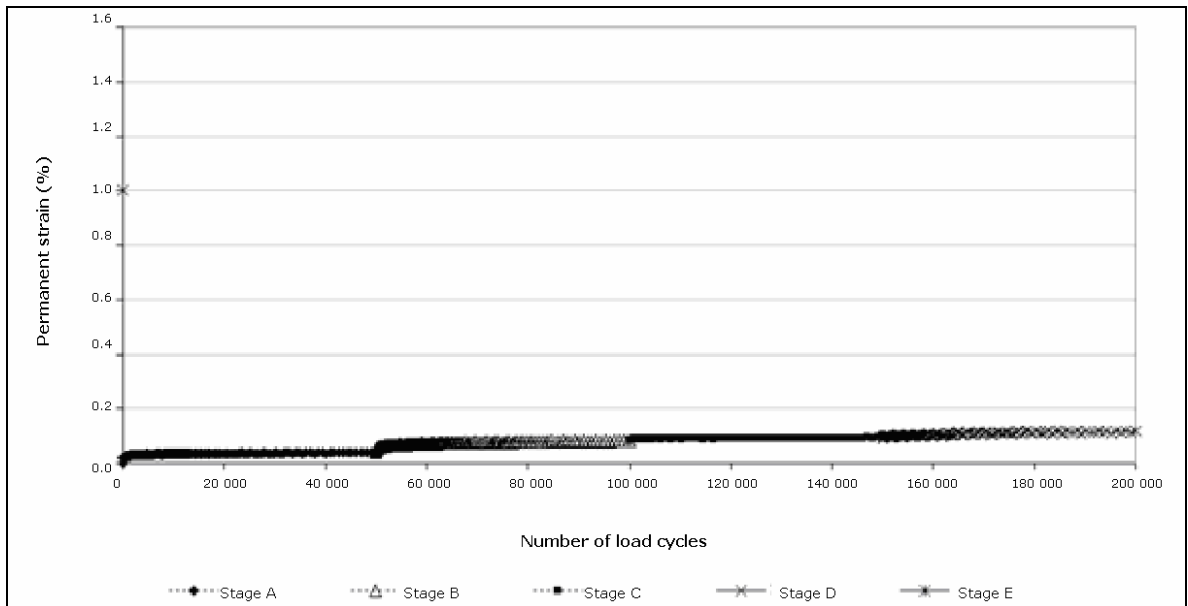


Figure A9 Test 4a: Material 4 (dry) - 92% MDD, 71% OMC.

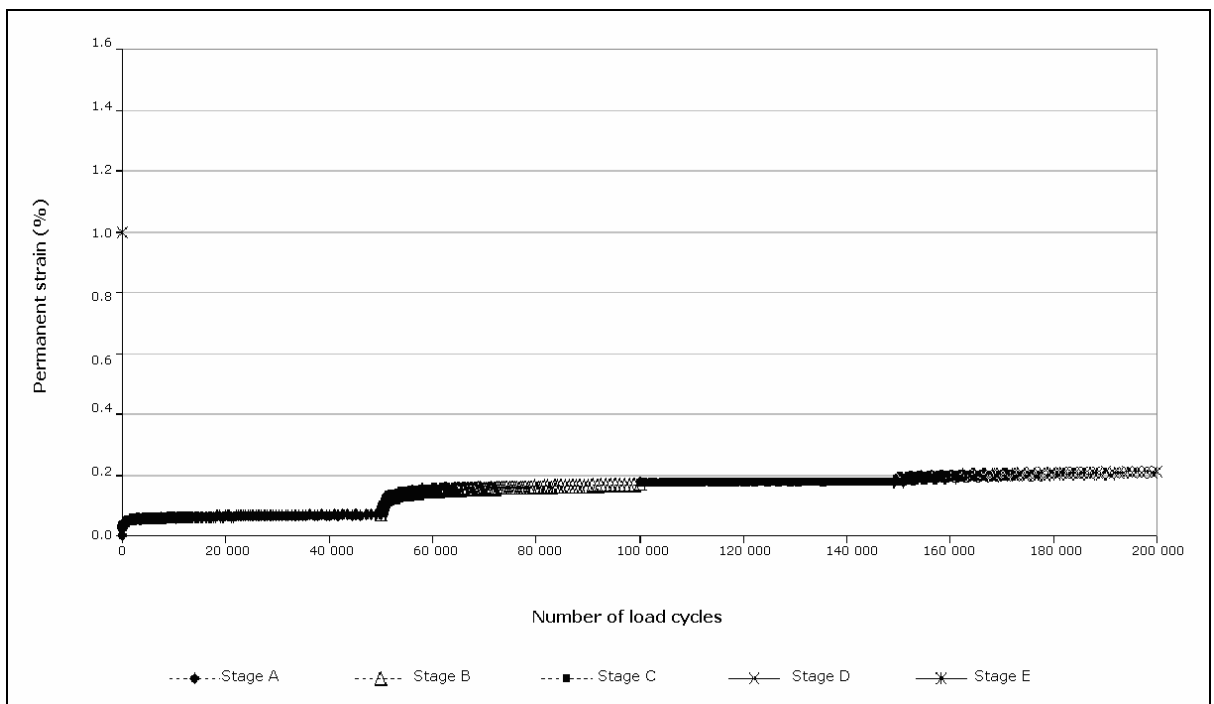


Figure A10 Test 4b: Material 4 (wet) 92%MDD, 95%OMC.

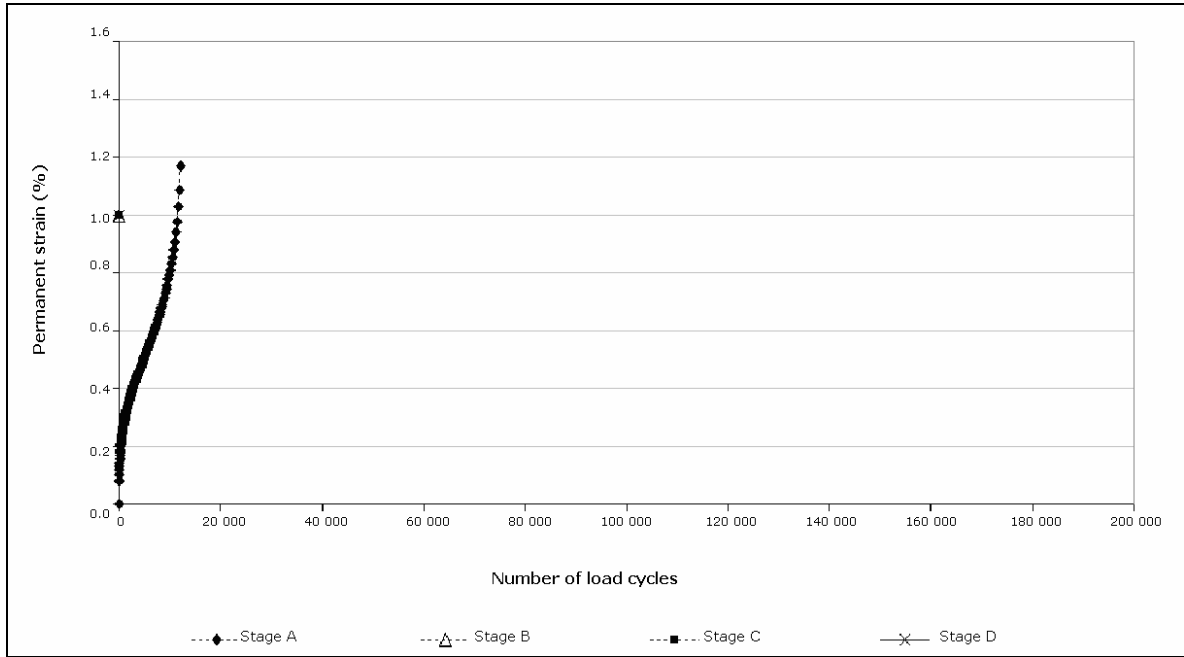


Figure A11 Test 5a: Material 5 (dry) - 90% MDD, 69% OMC.

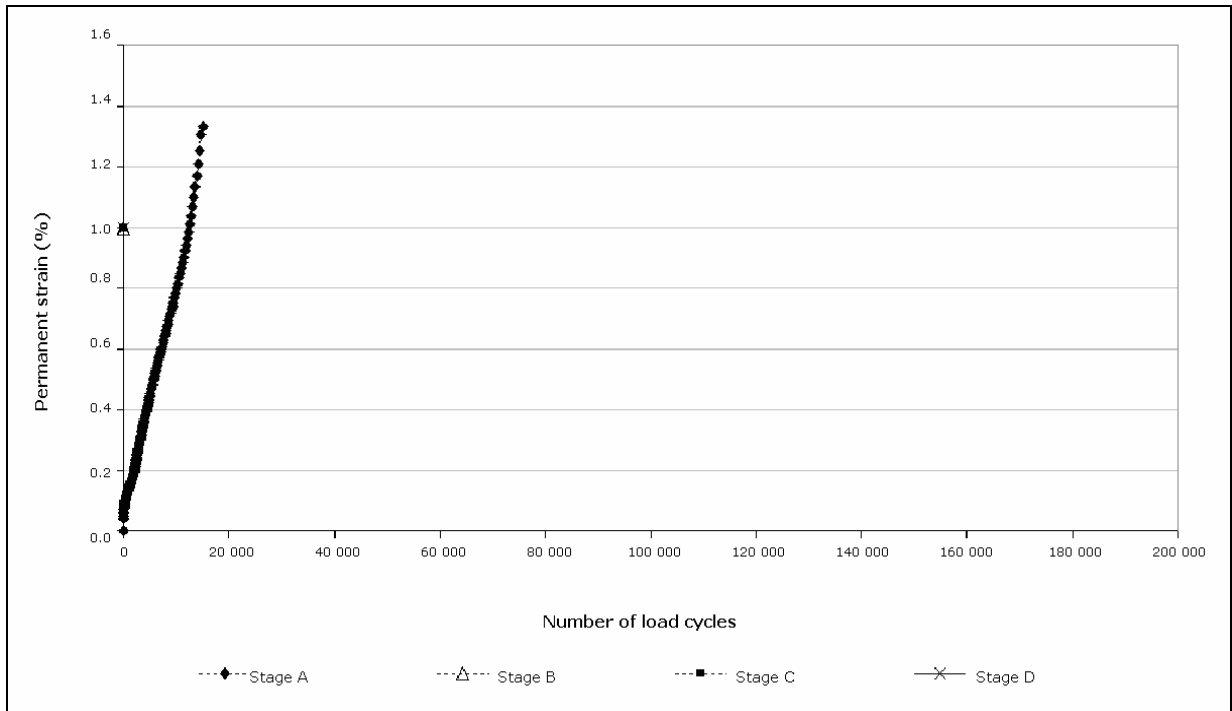


Figure A12 Test 5b: Material 5 (wet) - 93% MDD, 86% OMC.

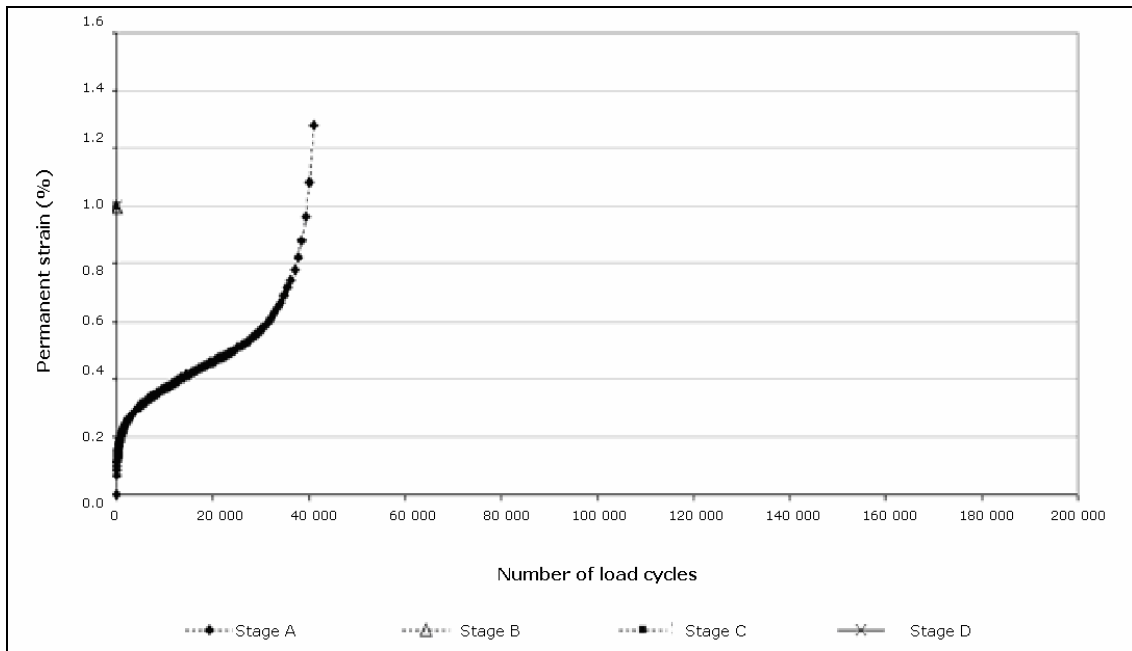


Figure A13 Test 6a: Material 6 (dry) - 89% MDD, 64% OMC.

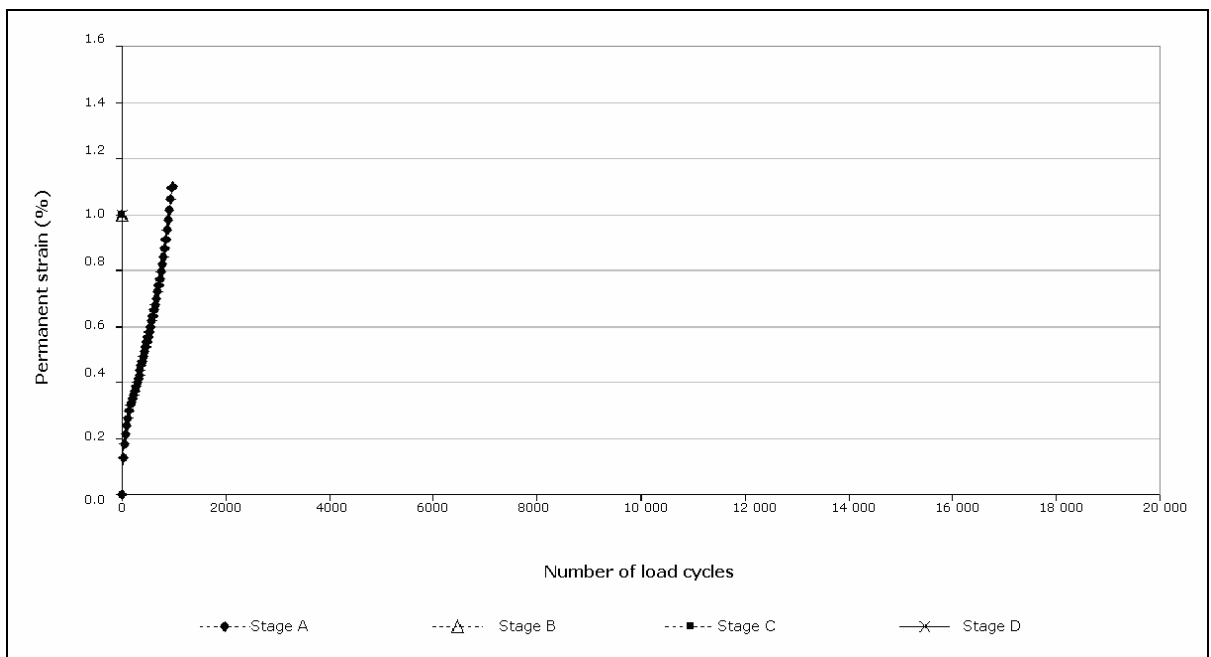


Figure A14 Test 6b: Material 6 (wet) - 91% MDD, 74% OMC.

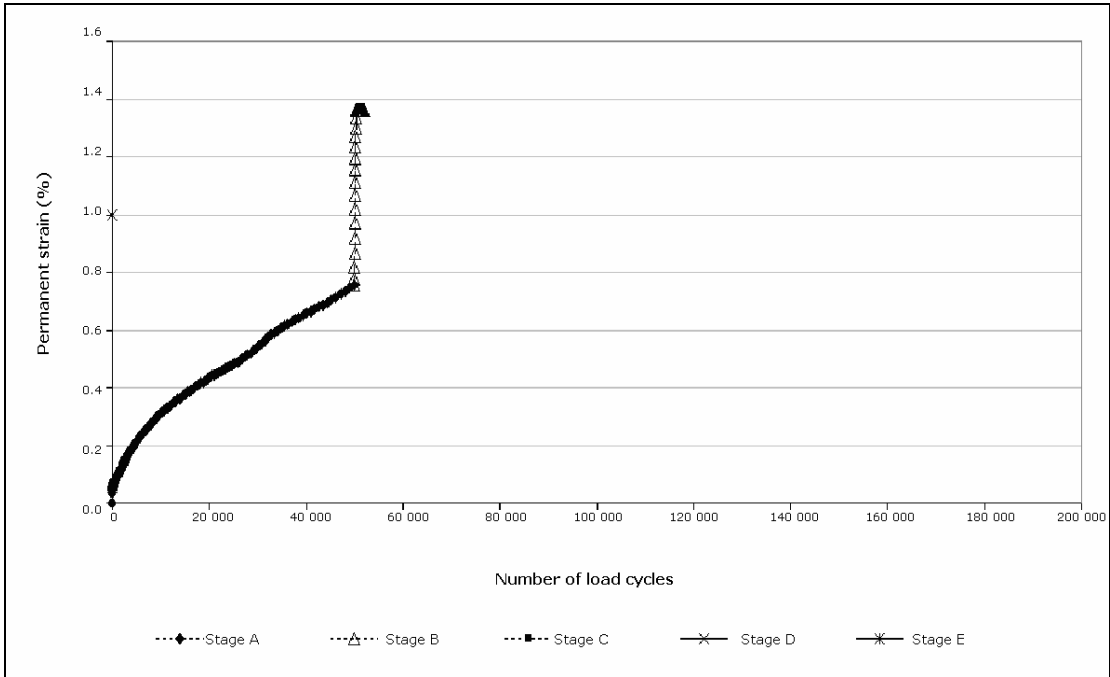


Figure A15 Test 7a: Material 7 (dry) - 92% MDD, 69% OMC.

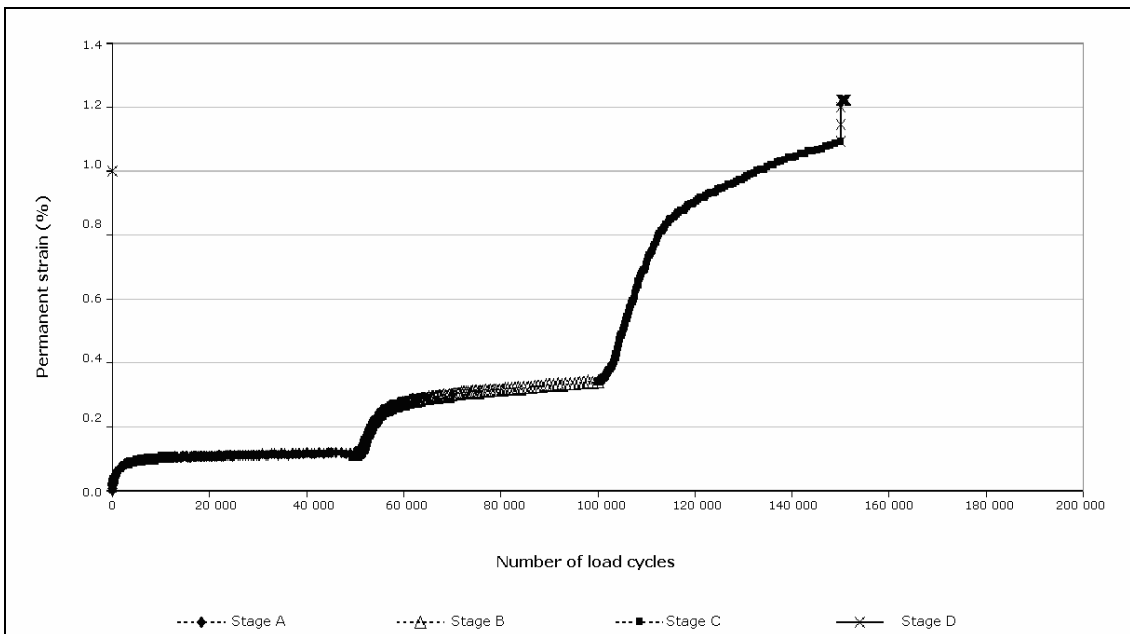


Figure A16 Test 7b: Material 7 (dry) - 93% MDD, 56% OMC.

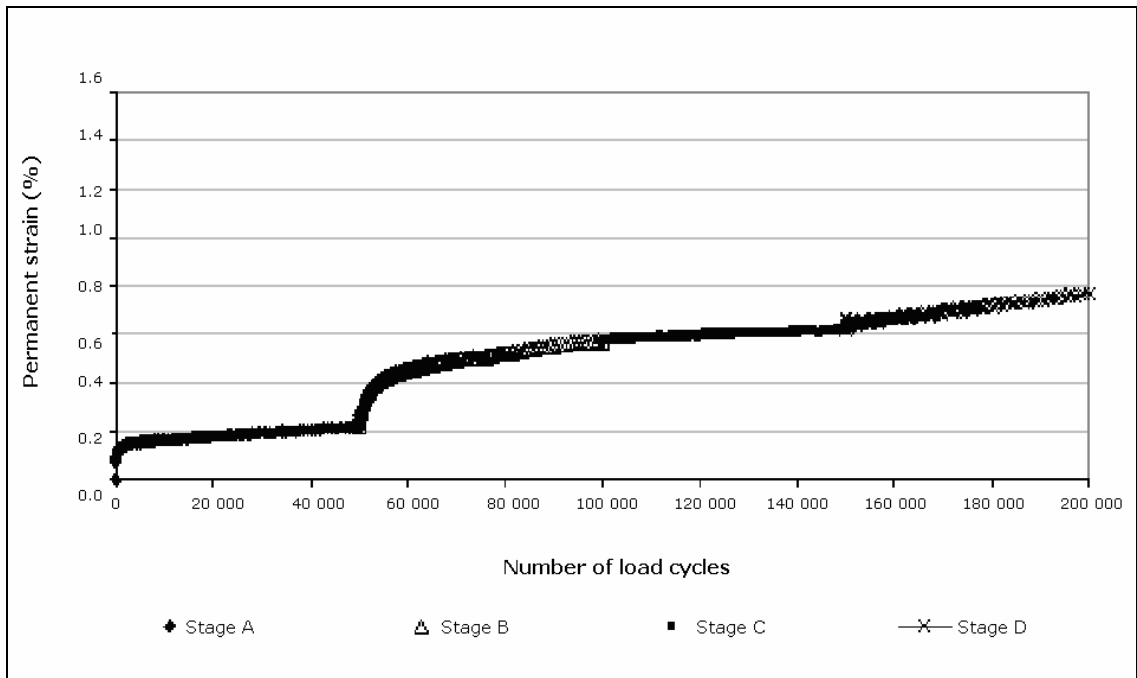


Figure A17 Test 8a: Material 8 (dry) - 90% MDD, 72% OMC.

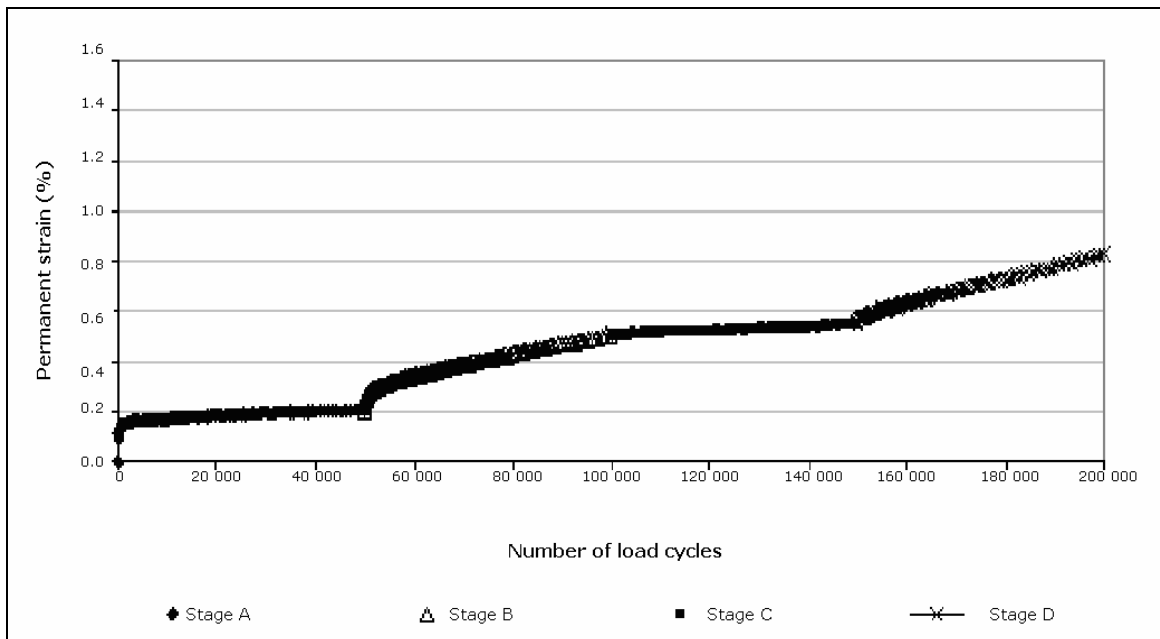


Figure A18 Test 8b: Material 8 (wet) - 94% MDD, 80% OMC.

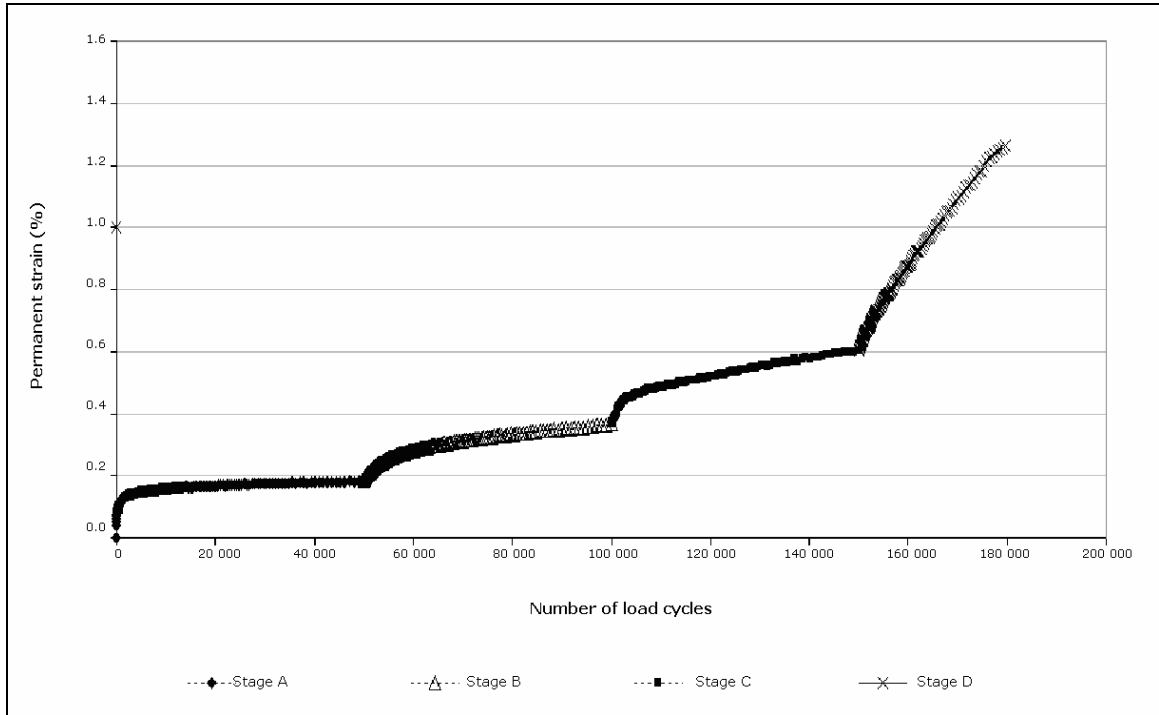


Figure A19 Test 9a: Material 9 (dry) - 90% MDD, 70% OMC.

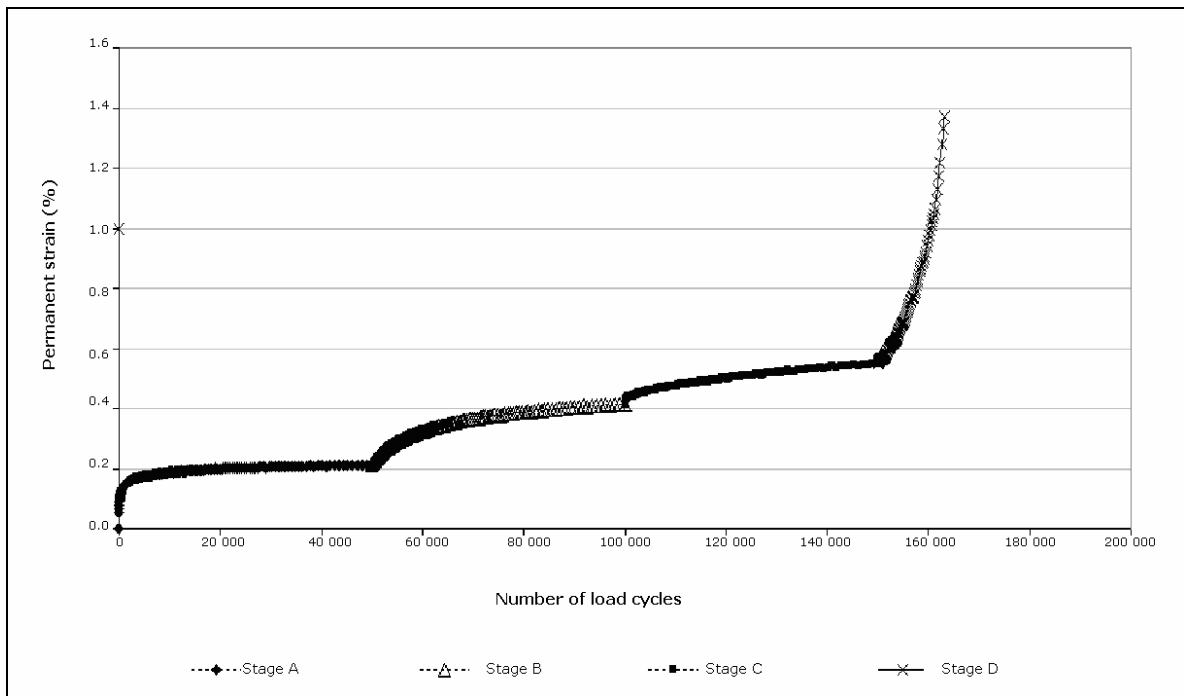


Figure A20 Test 9b: Material 9 (wet) - 89% MDD, 82% OMC.

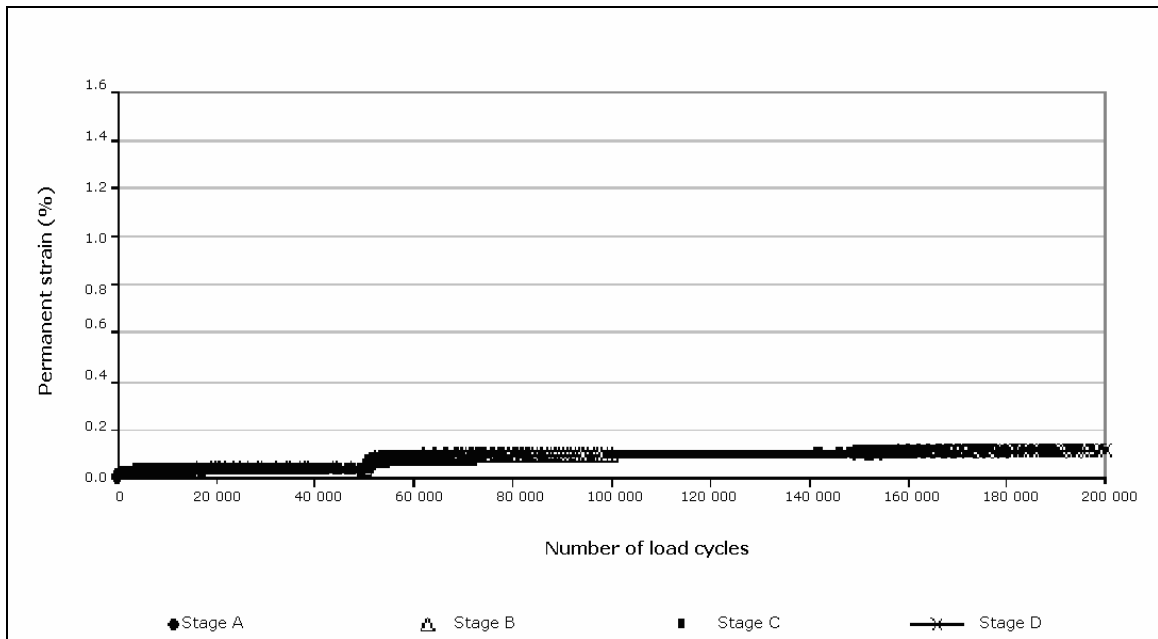
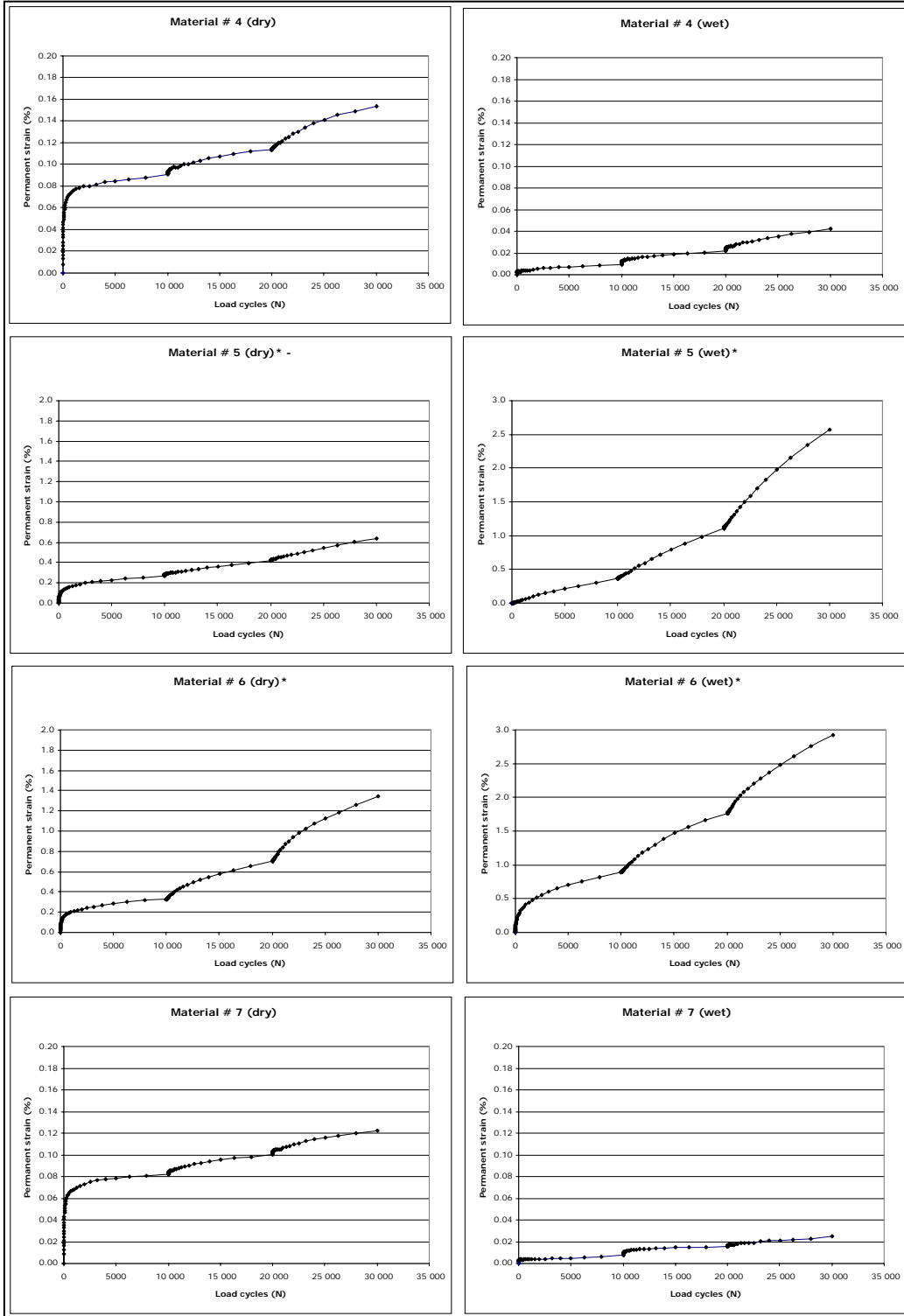


Figure A21 Test 10a: Material 10 (0.75% cement added to Material 8) (dry) - 90% MDD, 66% OMC.

Appendix B RLT results ARRB/AUSTROADS method



*A different scale was used for these charts, as the results yielded significantly larger deformations.

Figure B1 RLT permanent strain results using the ARRB/AUSTROADS method for Materials 4–7.

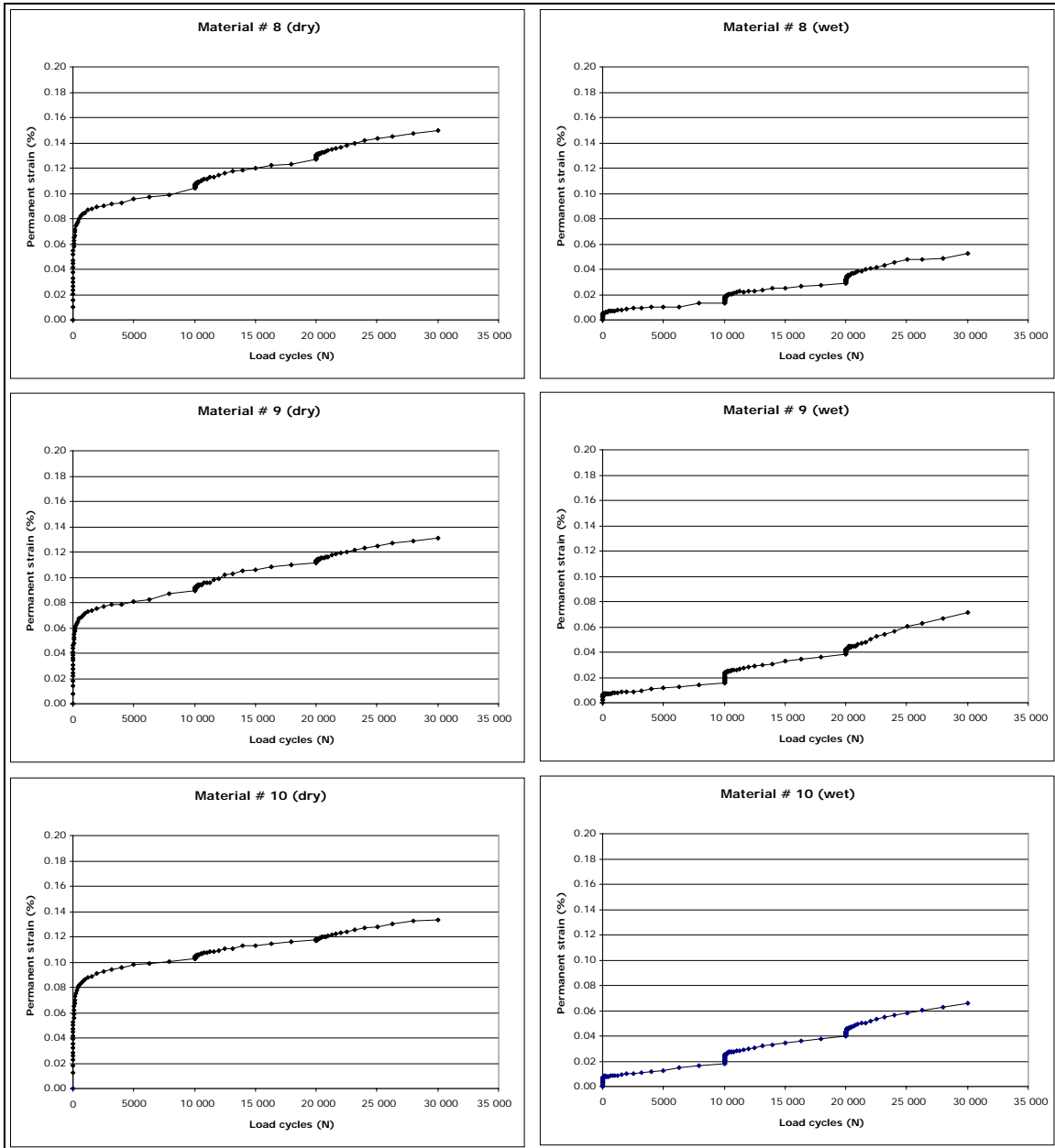
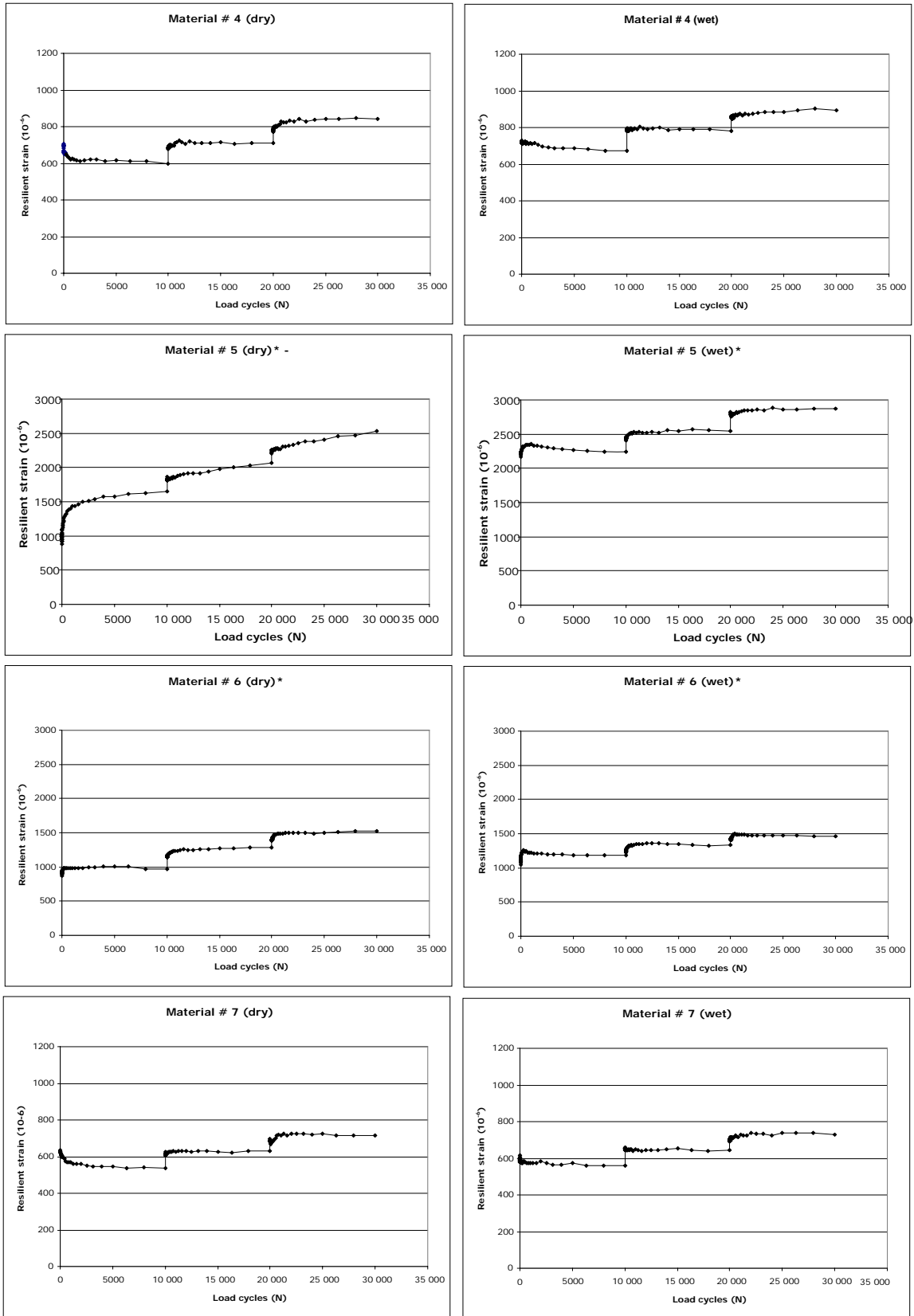


Figure B2 RLT permanent strain results using the ARRB/AUSTROADS method for Materials 8 to10.



* A different scale was used for these graphs as the resilient strains were significantly higher.

Figure B3 Resilient strains using the AARB/AUSTROADS RLT test method on Materials 4–7.

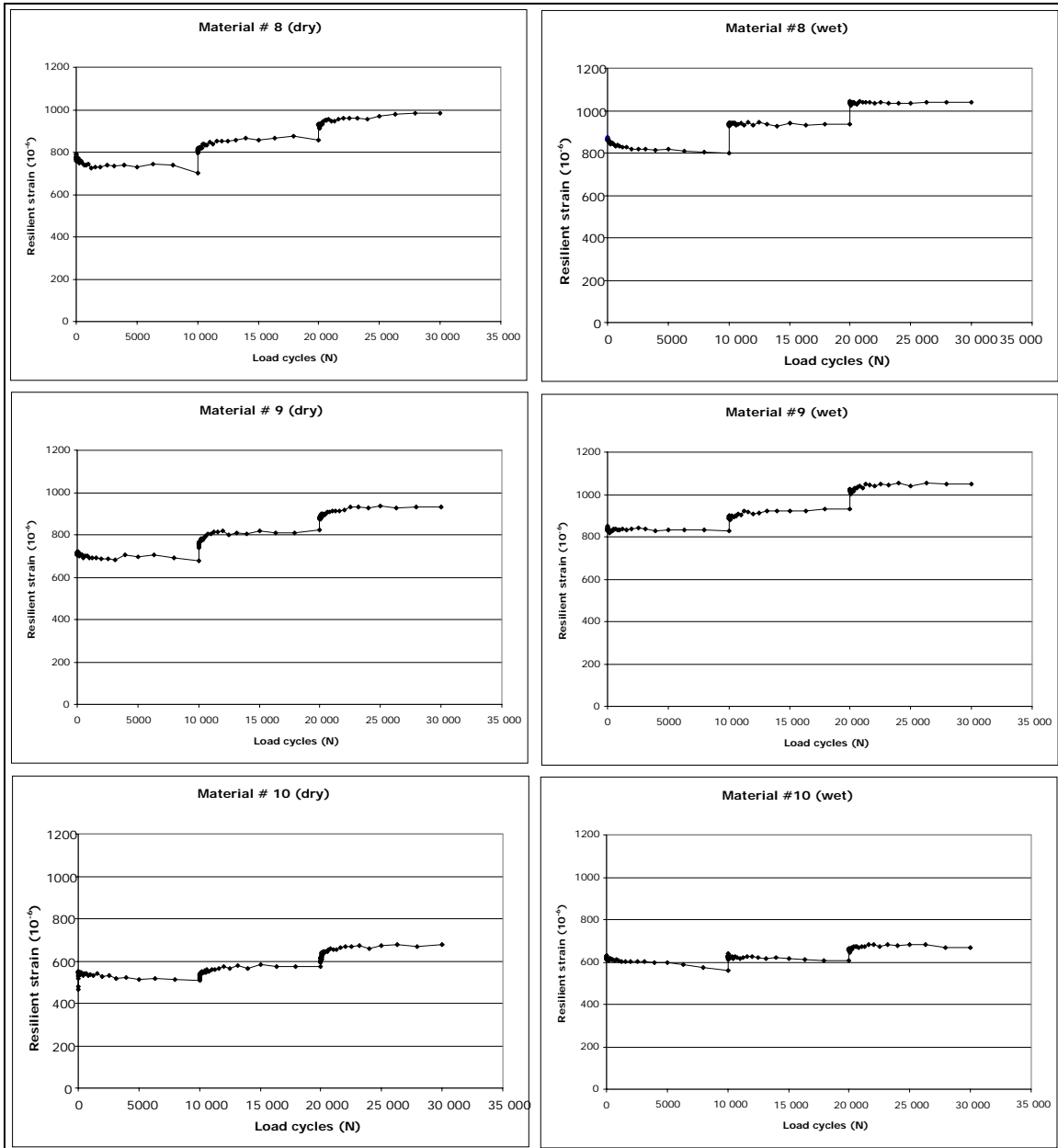


Figure B4 Resilient strains using the ARRB/AUSTROADS RLT test method on Materials 8–10.

Appendix C Extrapolated RLT results and Equation 1: how well they fit

C1 Test 1

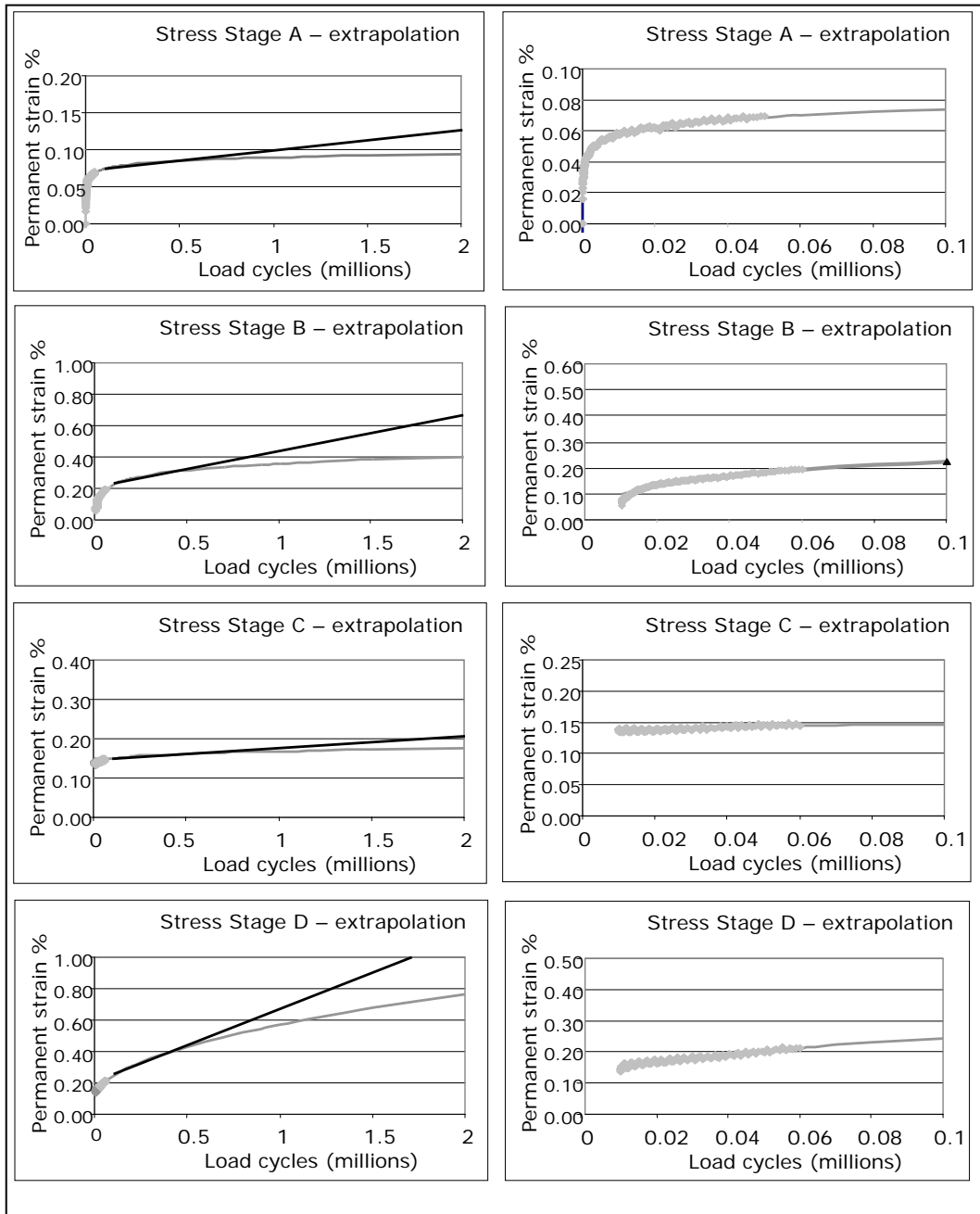


Figure C1 Extrapolated results of Test 1a.

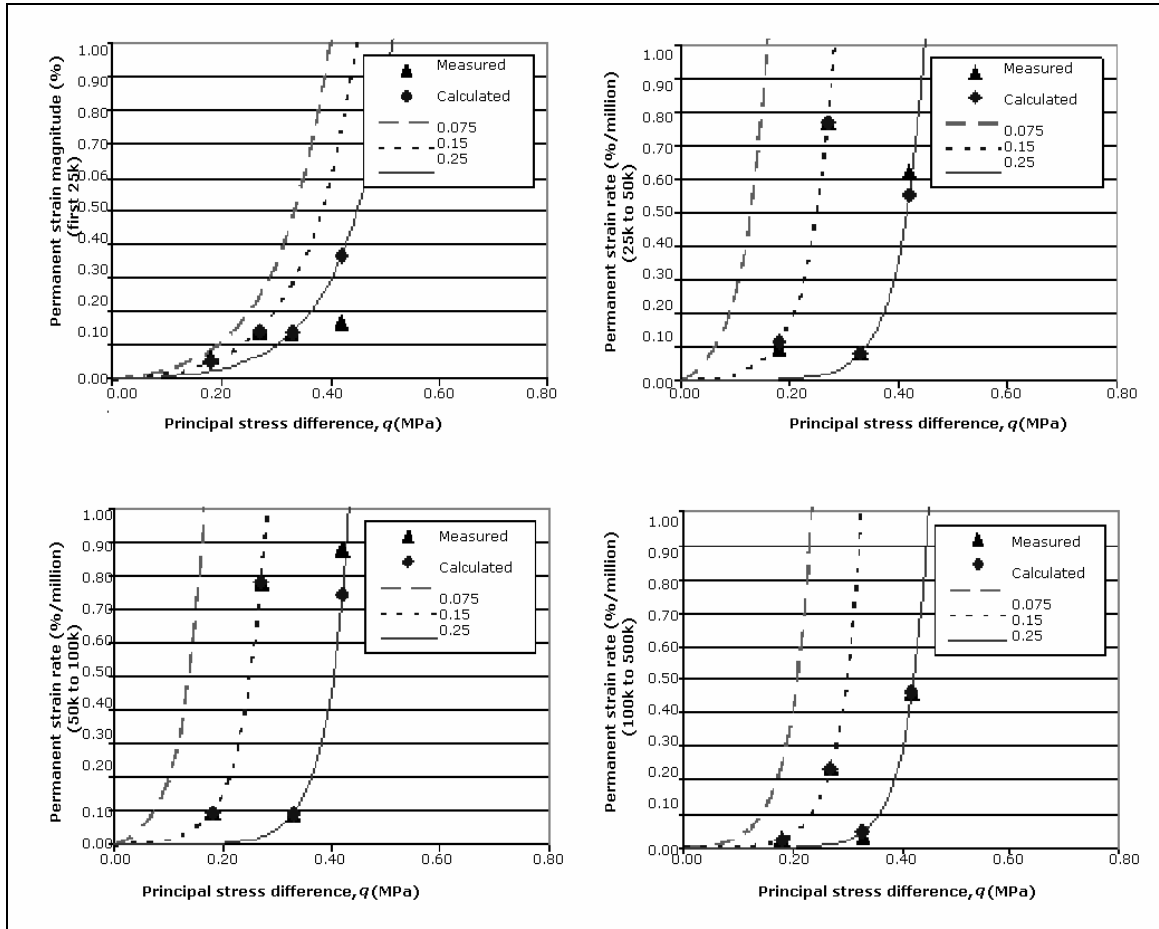


Figure C2 Fit between predicted and measured relationship between stress and permanent strain in Test 1a.

C2 Test 2

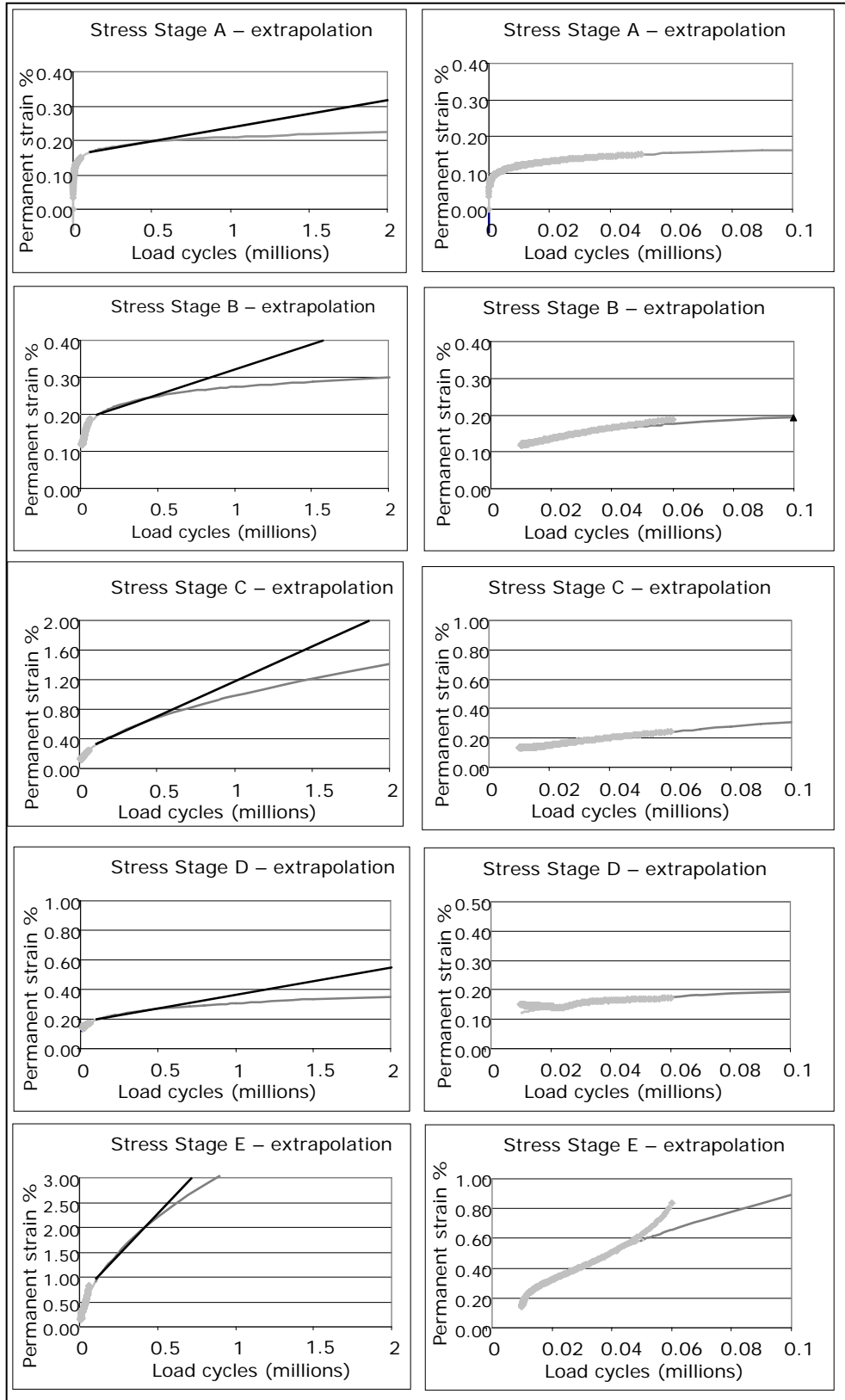


Figure C3 Extrapolated results of Test 2c.

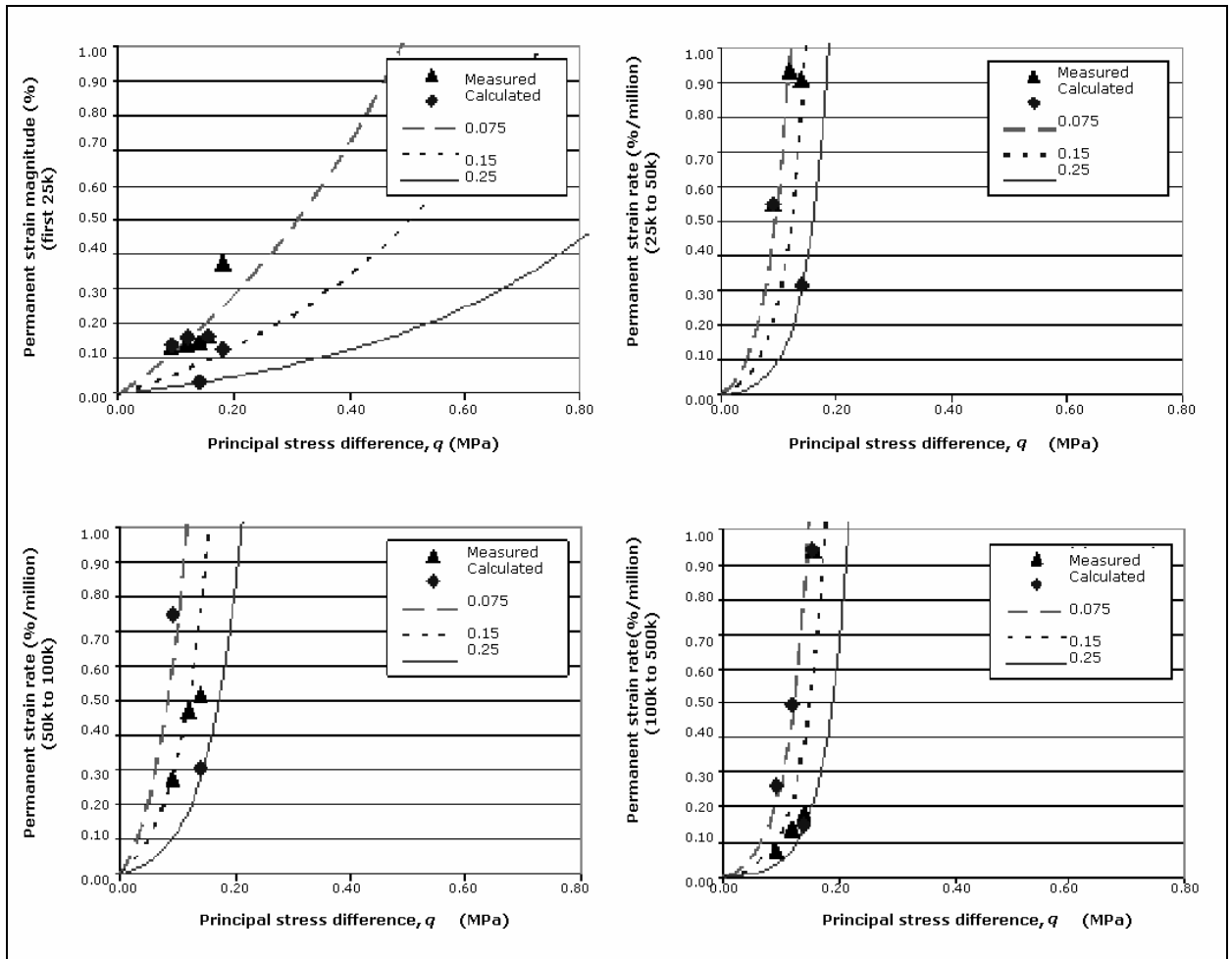


Figure C4 Fit between predicted and measured relationship between stress and permanent strain in Test 2c.

C3 Test 3

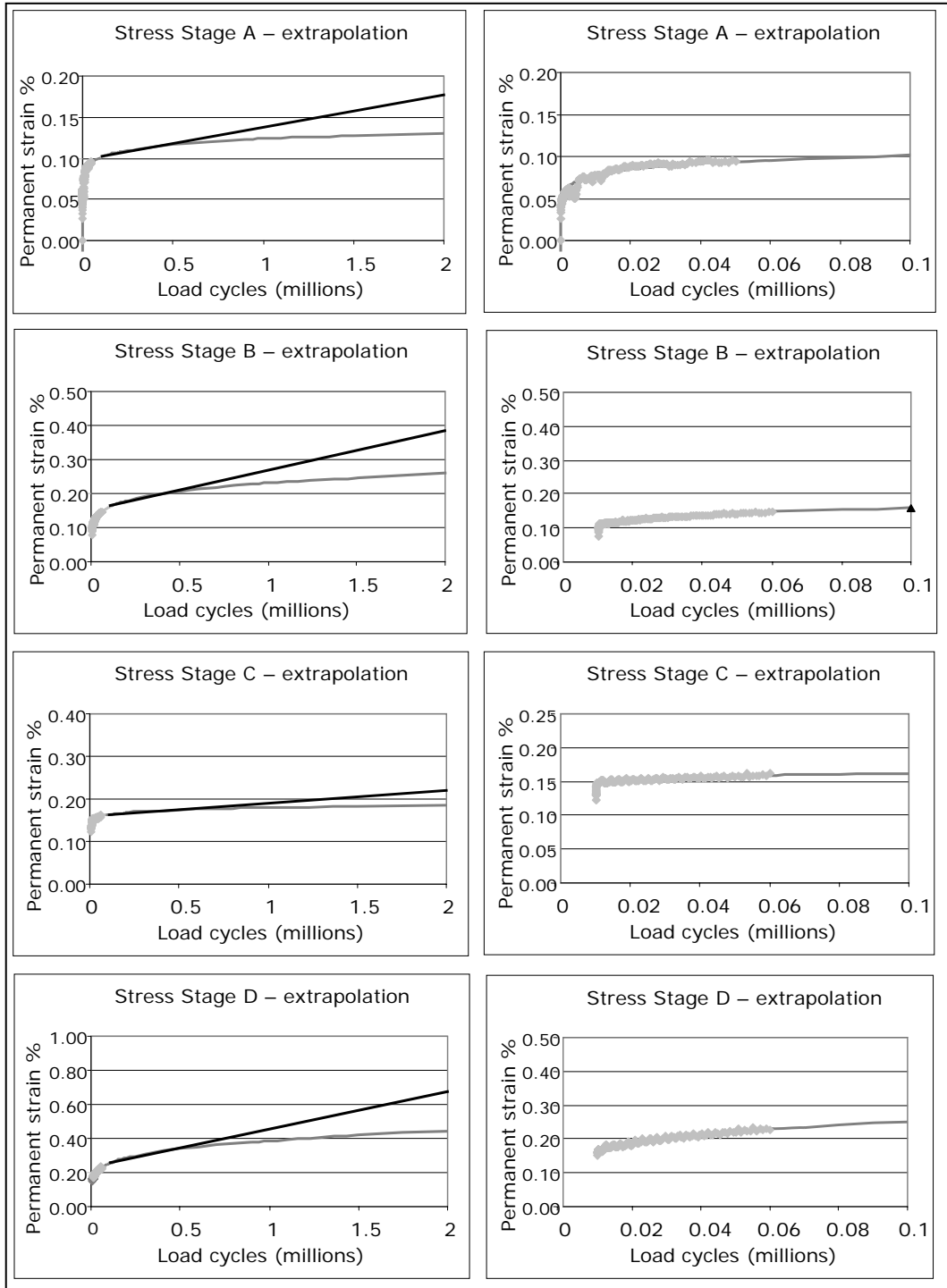


Figure C5 Extrapolated results of Test 3a.

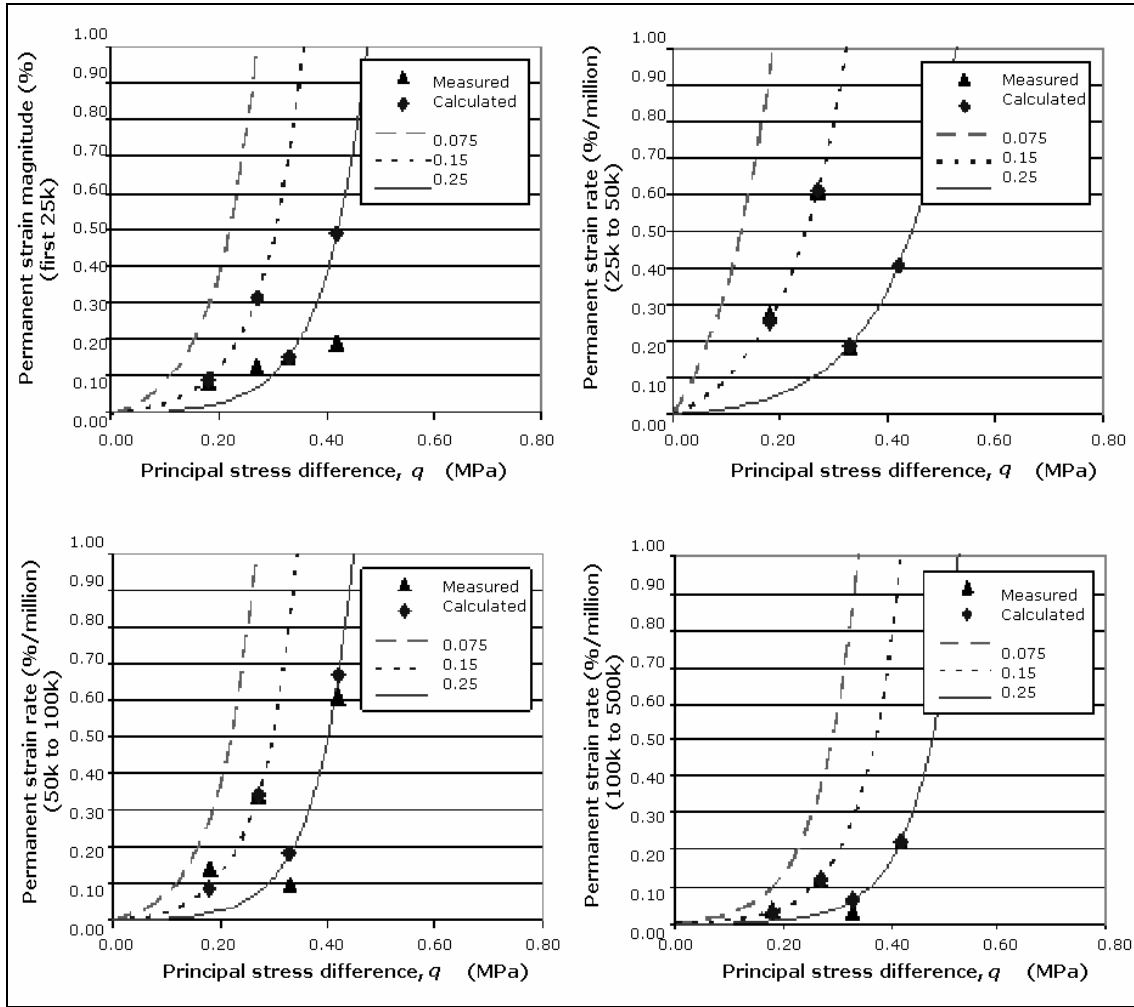


Figure C6 Fit between predicted and measured relationship between stress and permanent strain in Test 3a.

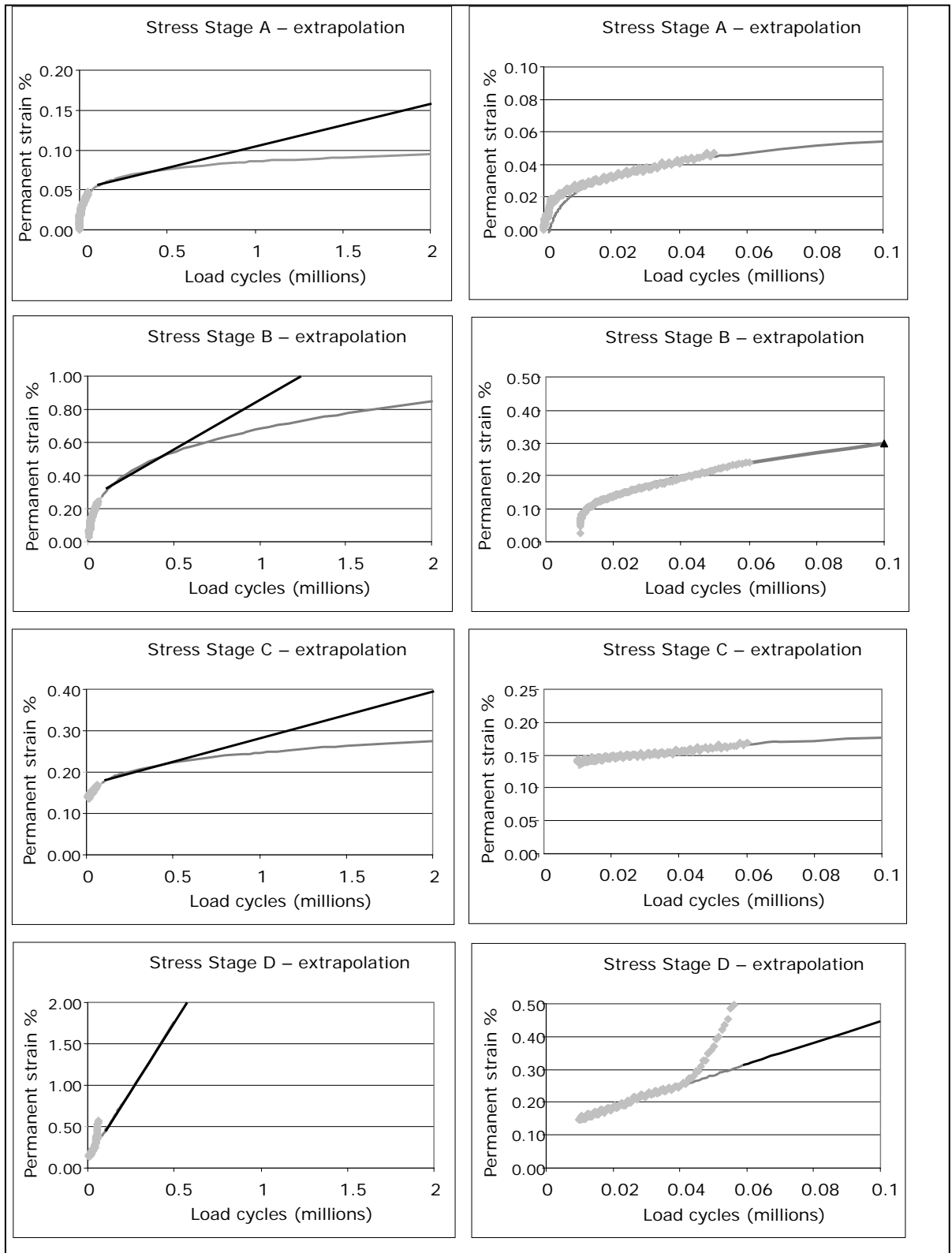


Figure C7 Extrapolated results of Test 3b.

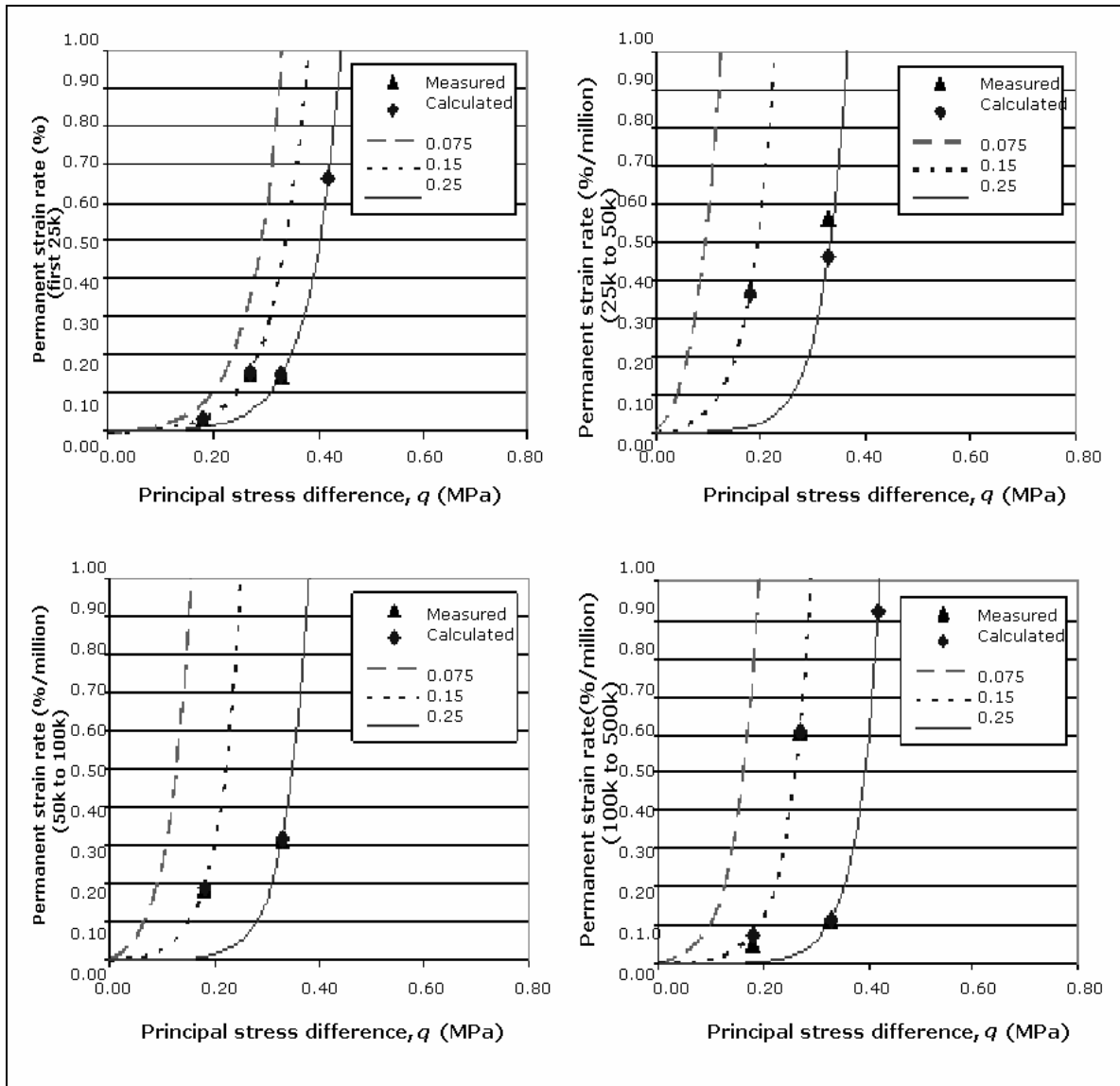


Figure C8 Fit between predicted and measured relationship between stress and permanent strain in Test 3b.

C4 Test 4

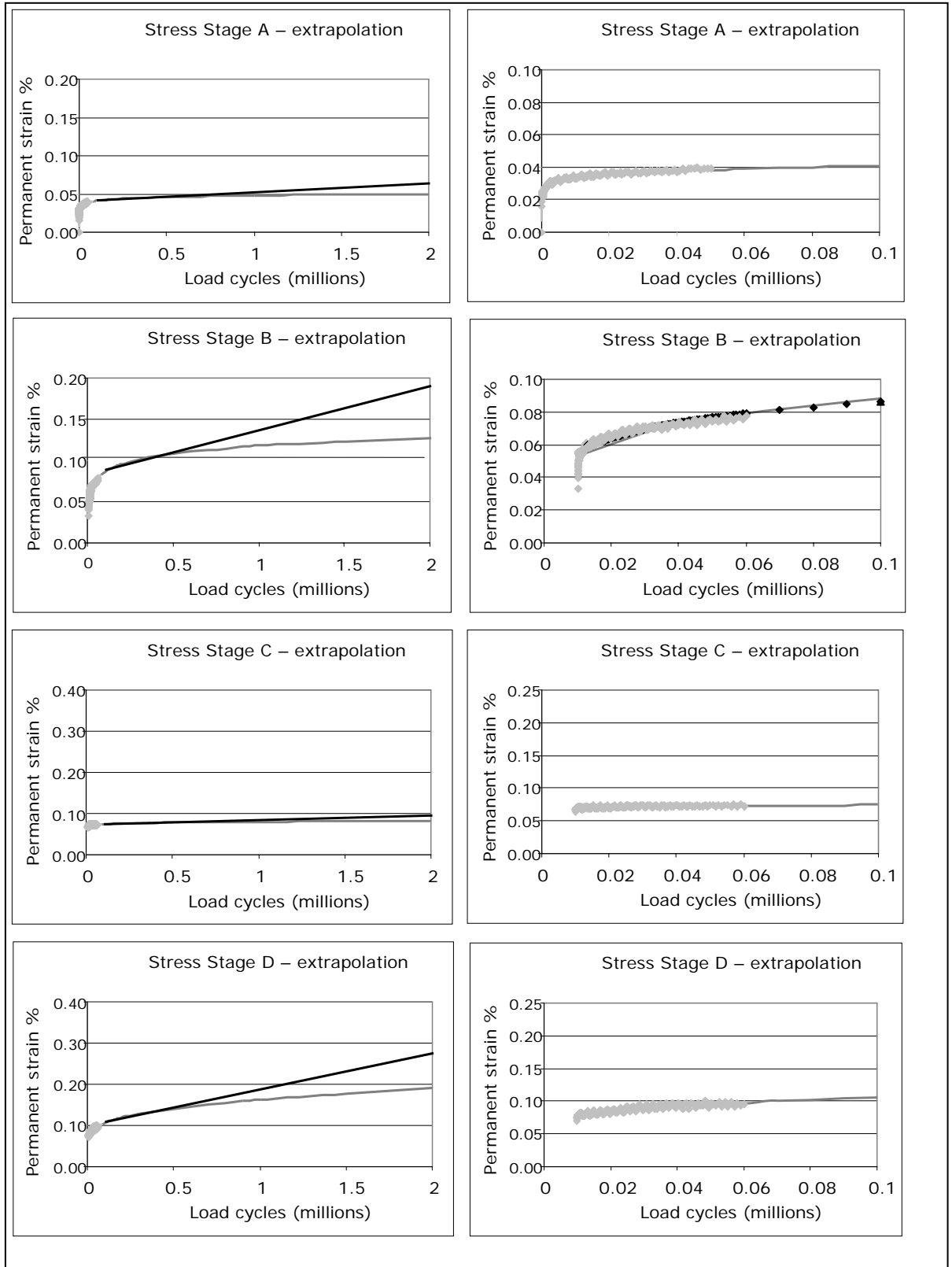


Figure C9 Extrapolated results of Test 4a.

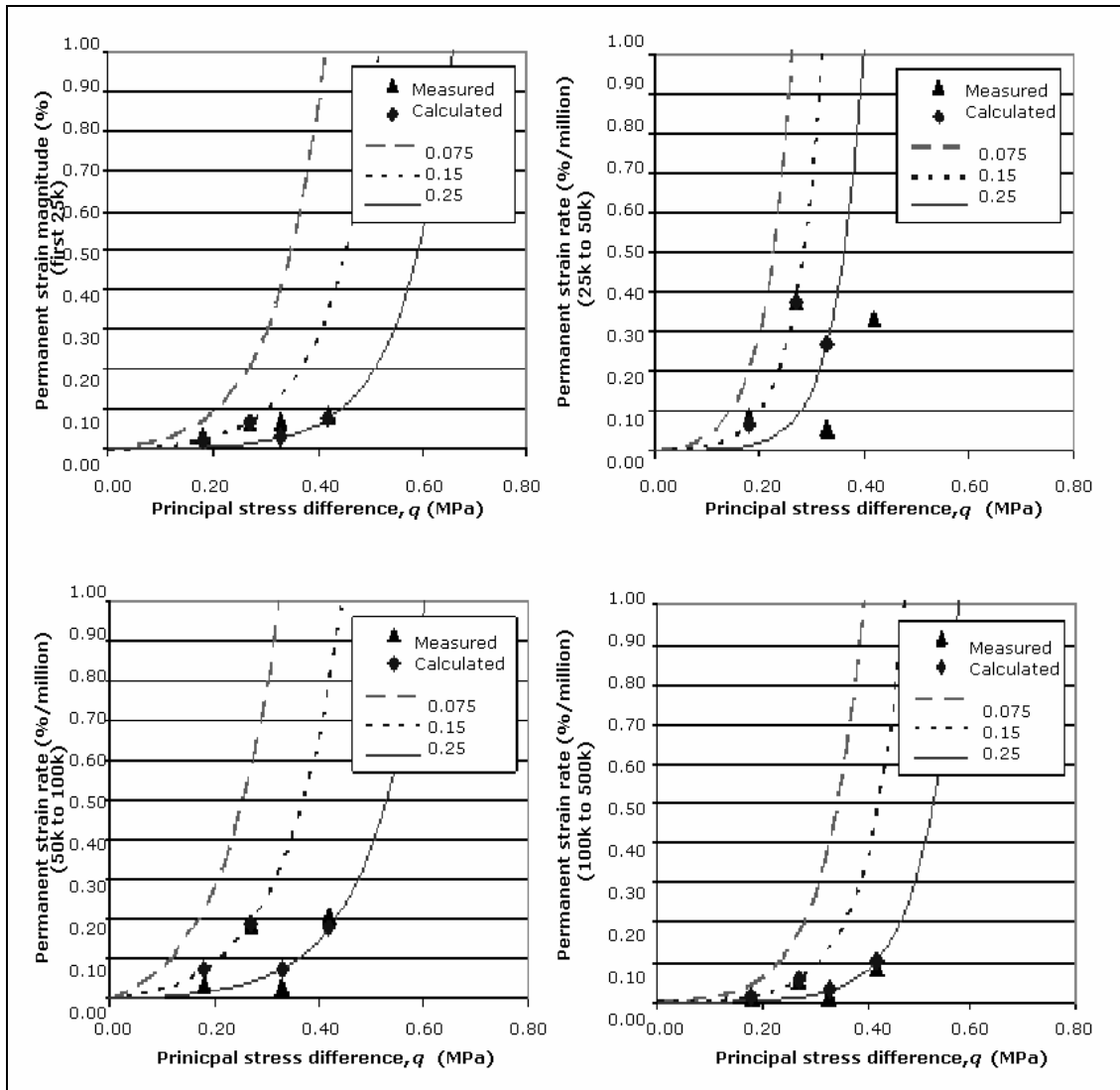


Figure C10 Fit between predicted and measured relationship between stress and permanent strain in Test 4a.

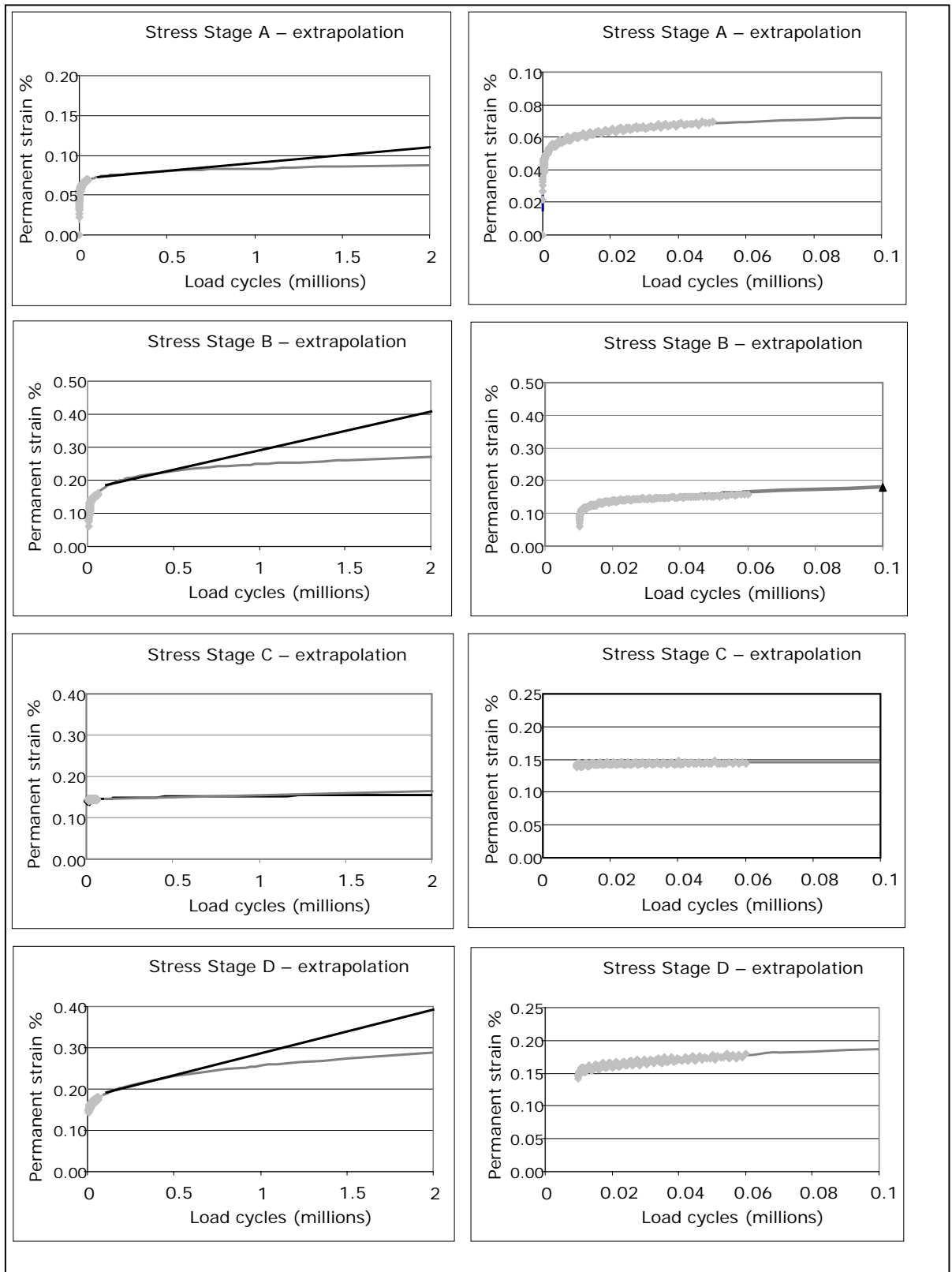


Figure C11 Extrapolated results of Test 4b.

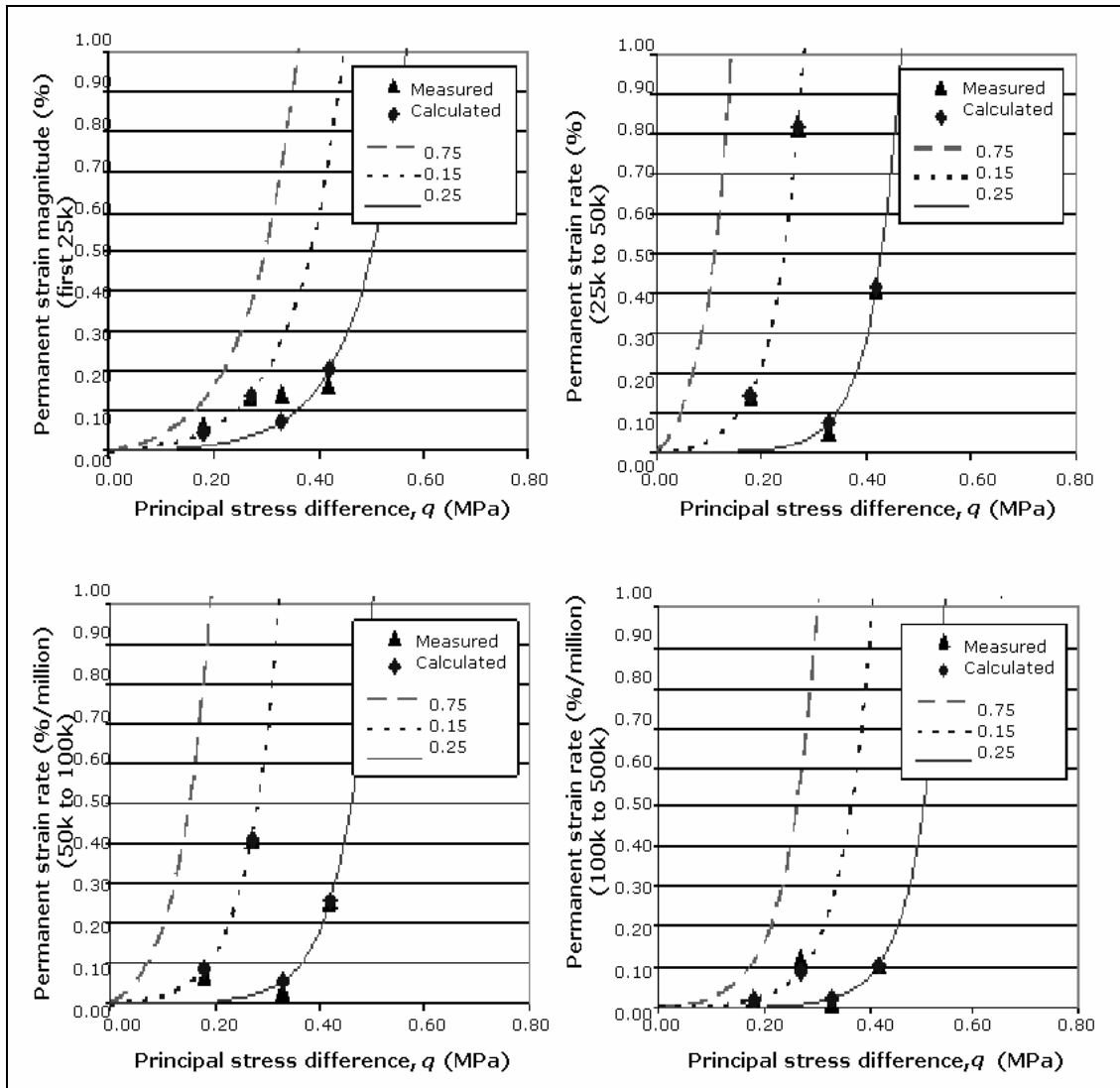


Figure C12 Fit between predicted and measured relationship between stress and permanent strain in Test 4b.

C5 Test 7

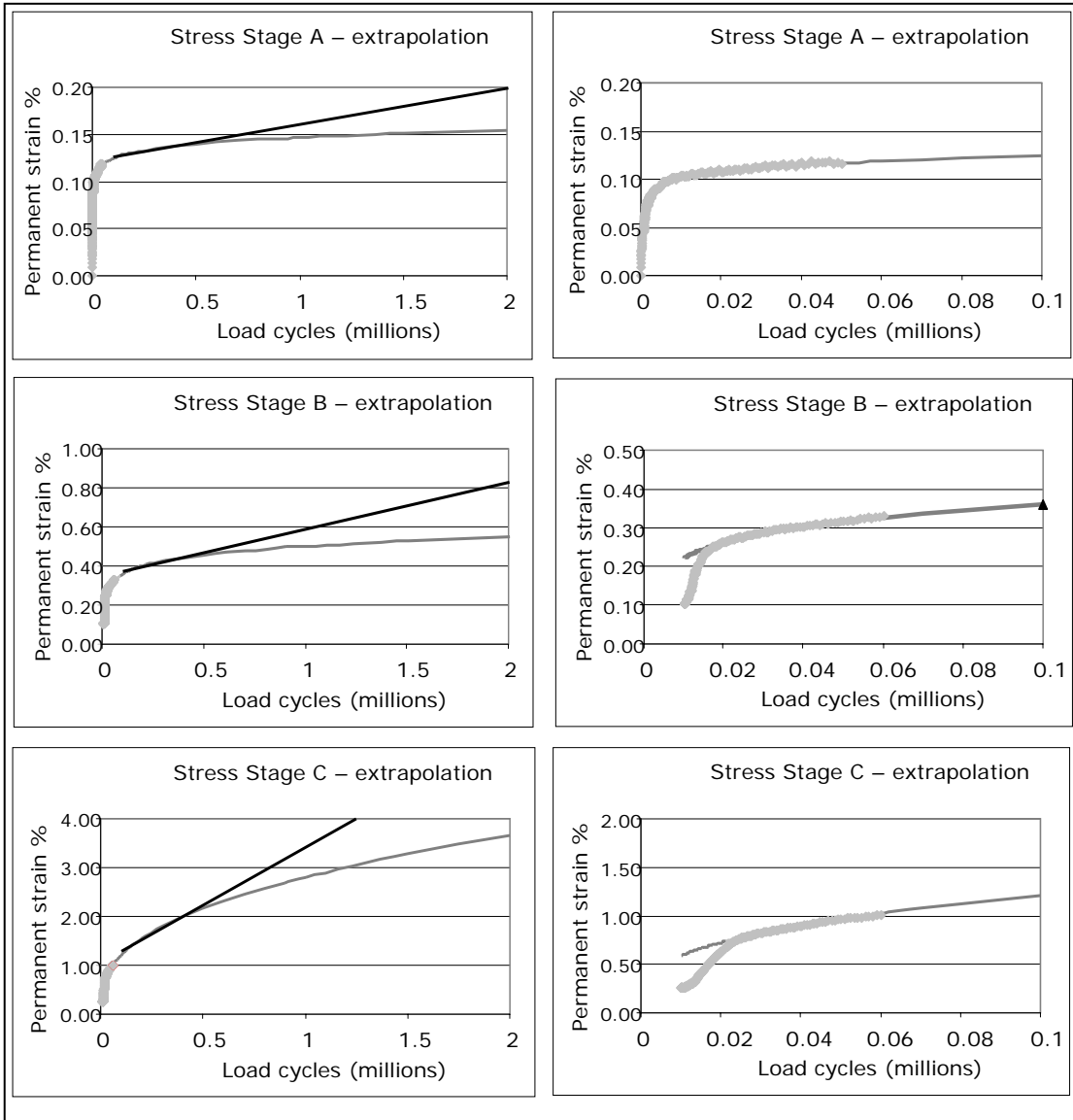


Figure C13 Extrapolated results of Test 7b.

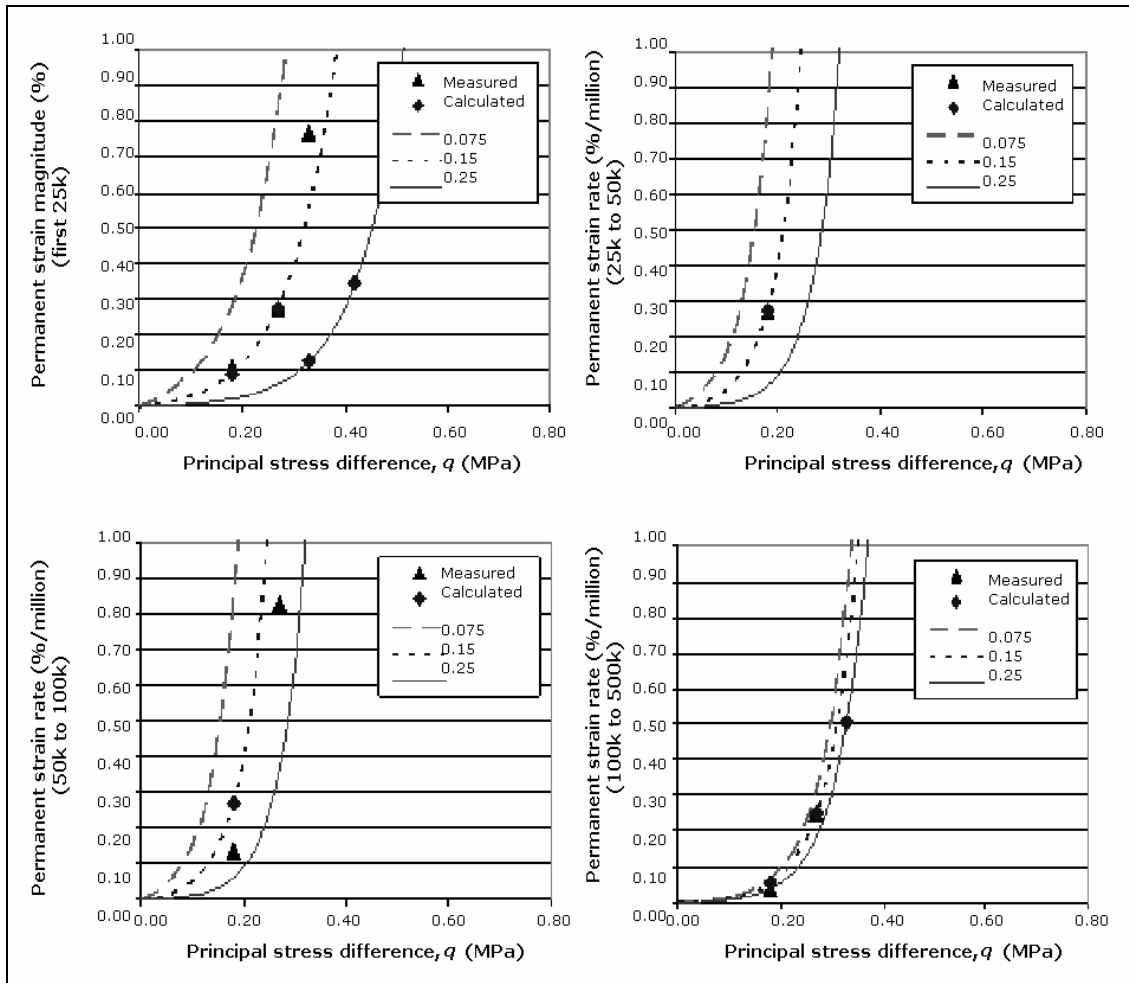


Figure C14 Fit between predicted and measured relationship between stress and permanent strain in Test 7b.

C6 Test 8

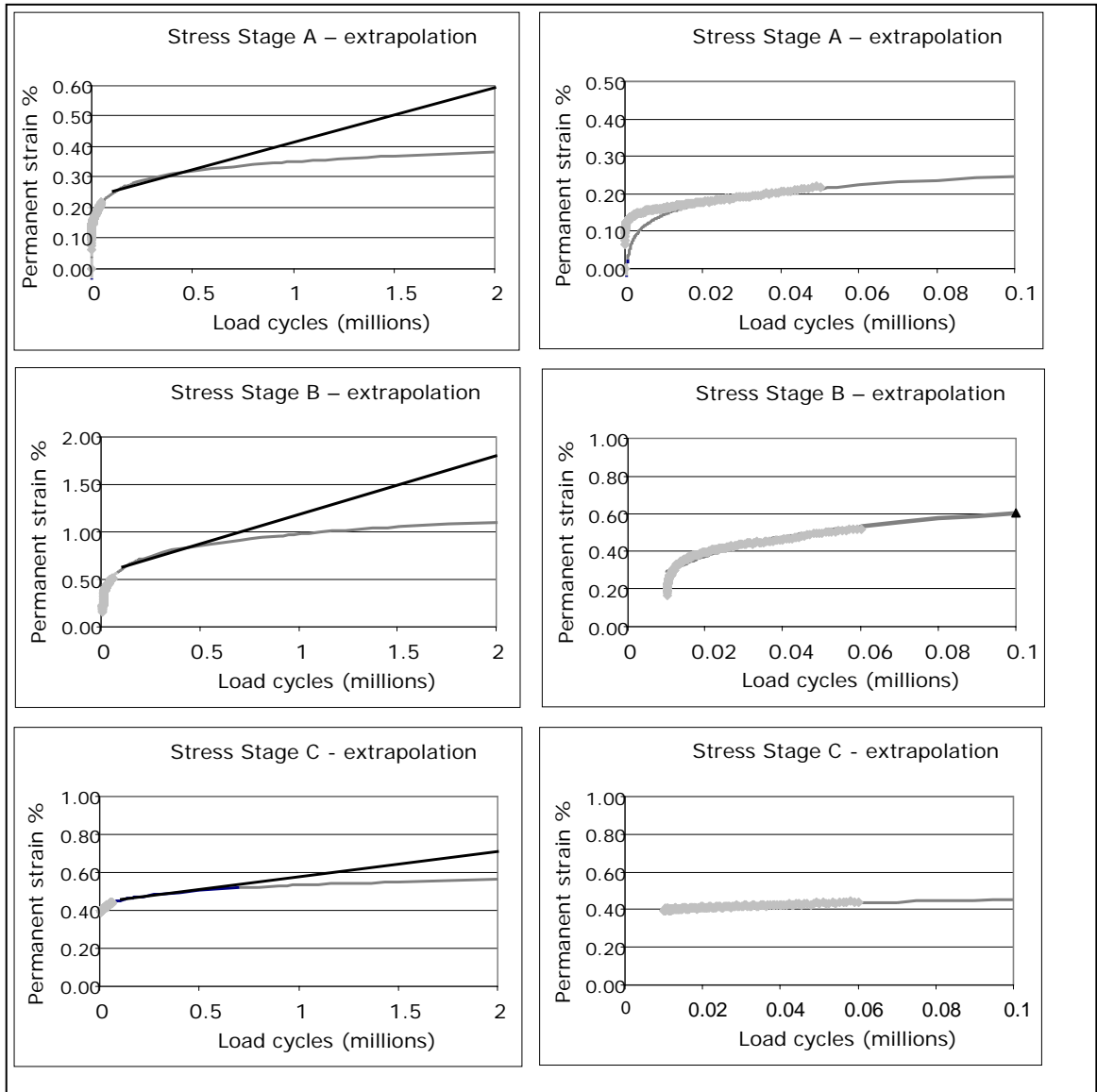


Figure C15 Extrapolated results of Test 8a.

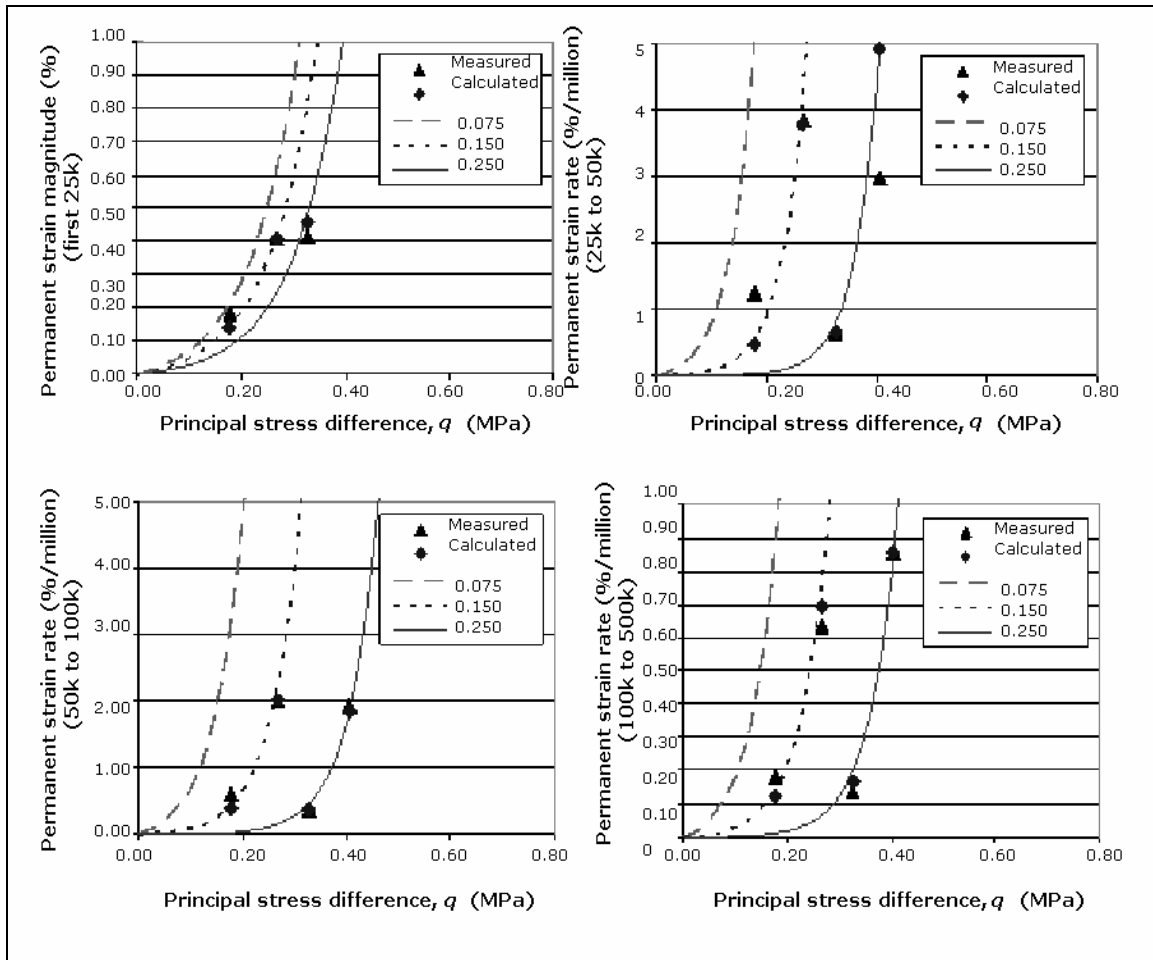


Figure C16 Fit between predicted and measured relationship between stress and permanent strain in Test 8b.

C7 Test 9

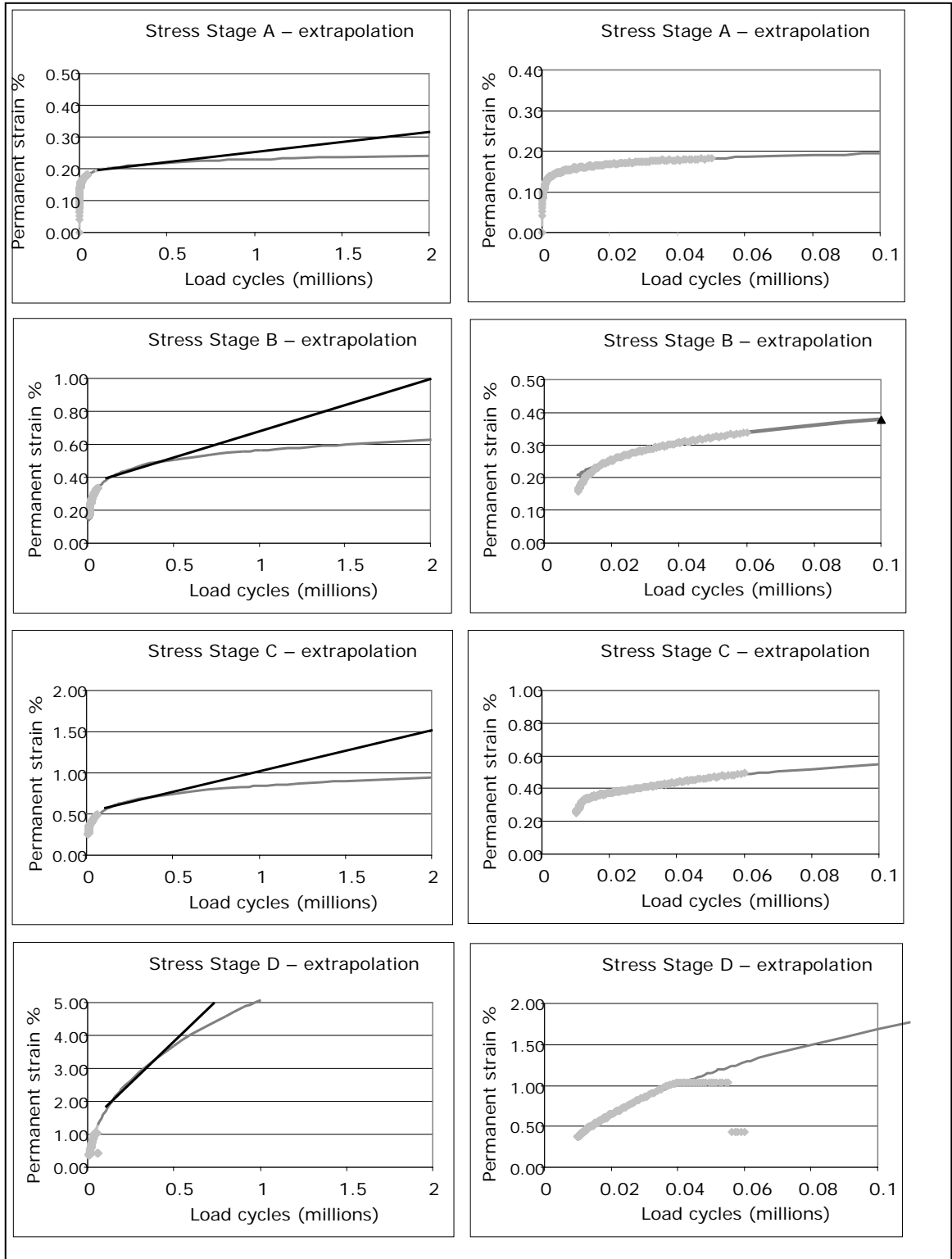


Figure C17 Extrapolated results of Test 9a.

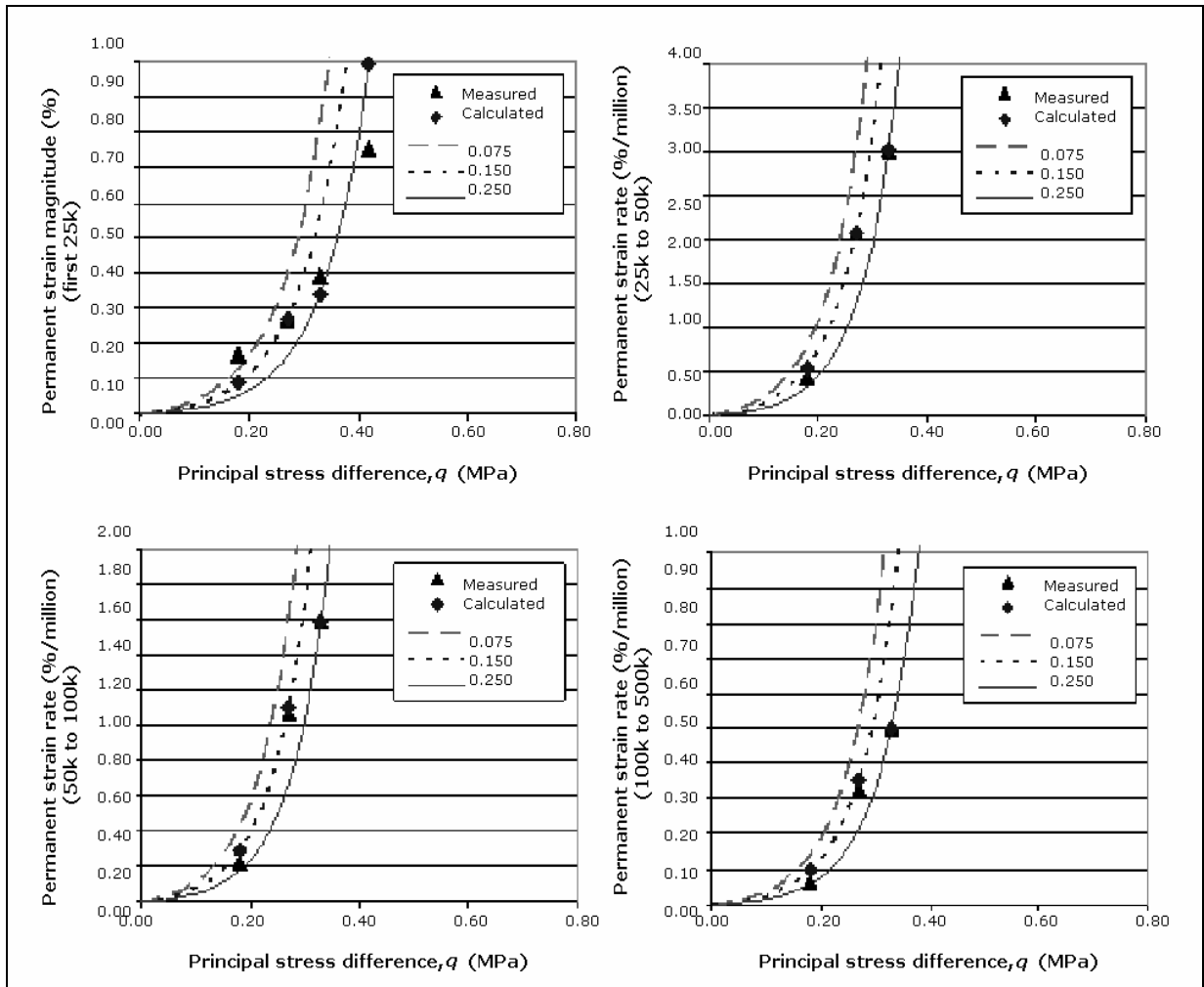


Figure C18 Fit between predicted and measured relationship between stress and permanent strain in Test 9a.

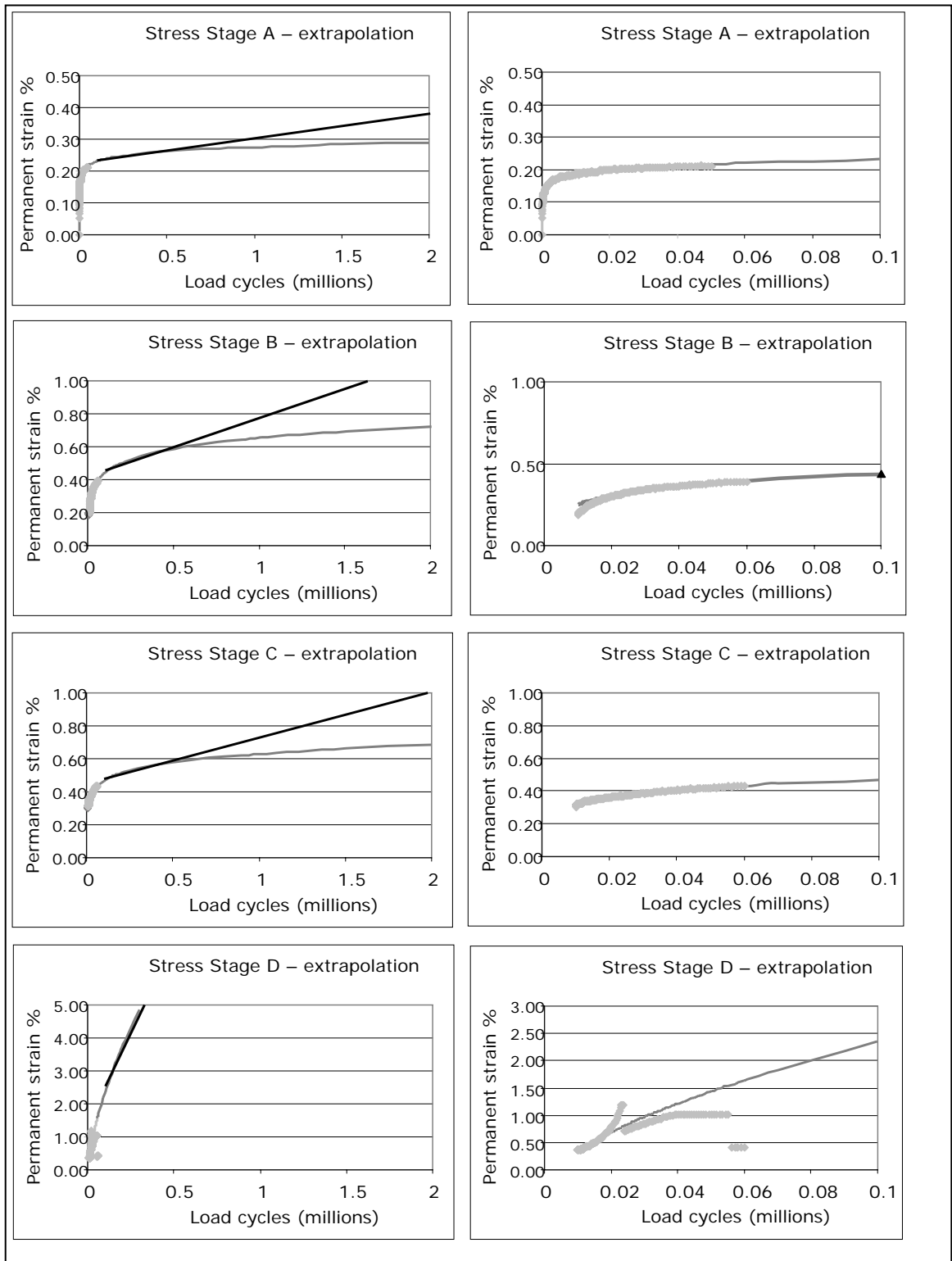


Figure C19 Extrapolated results of Test 9b.

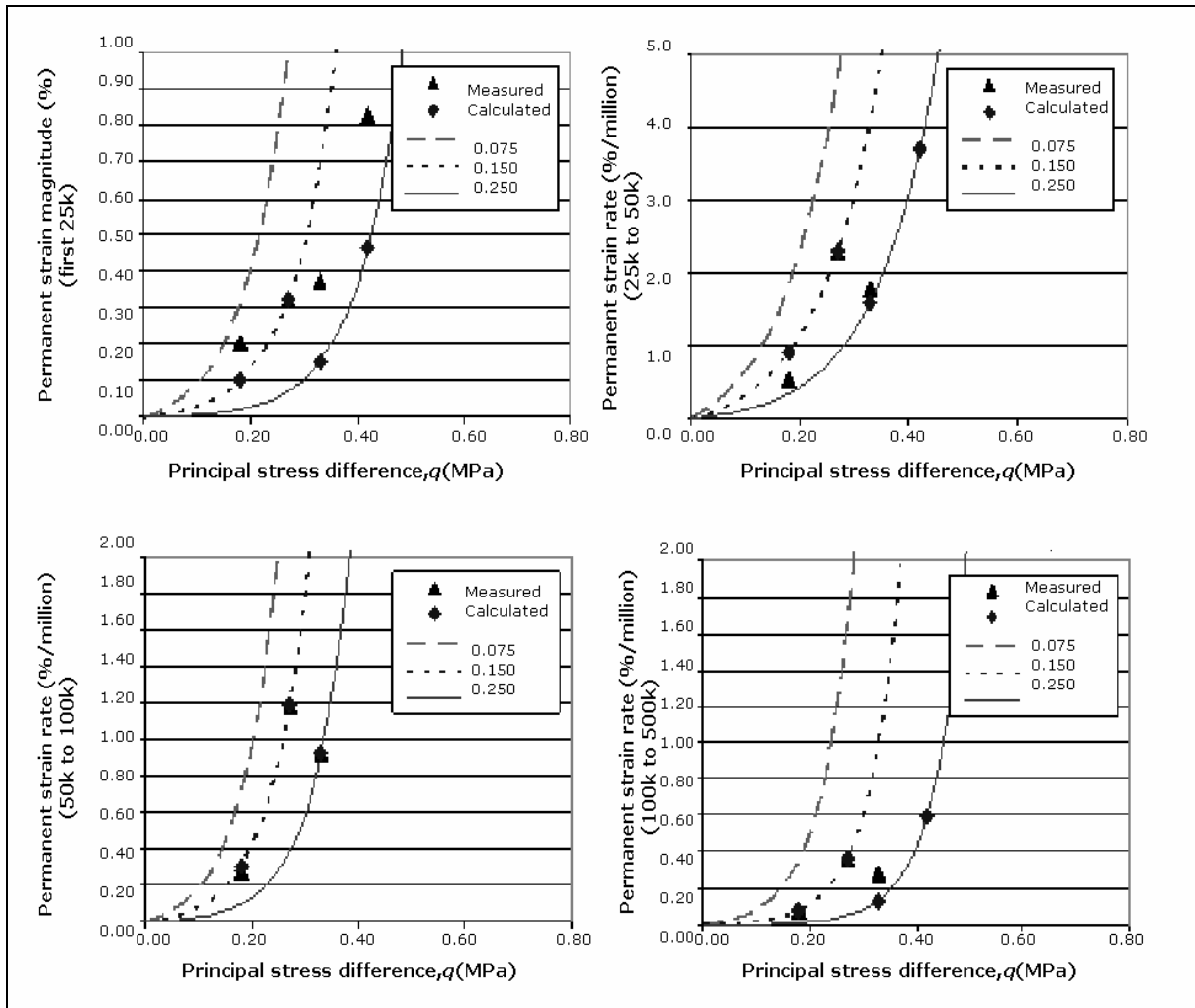


Figure C20 Fit between predicted and measured relationship between stress and permanent strain in Test 9b.

C8 Test 10

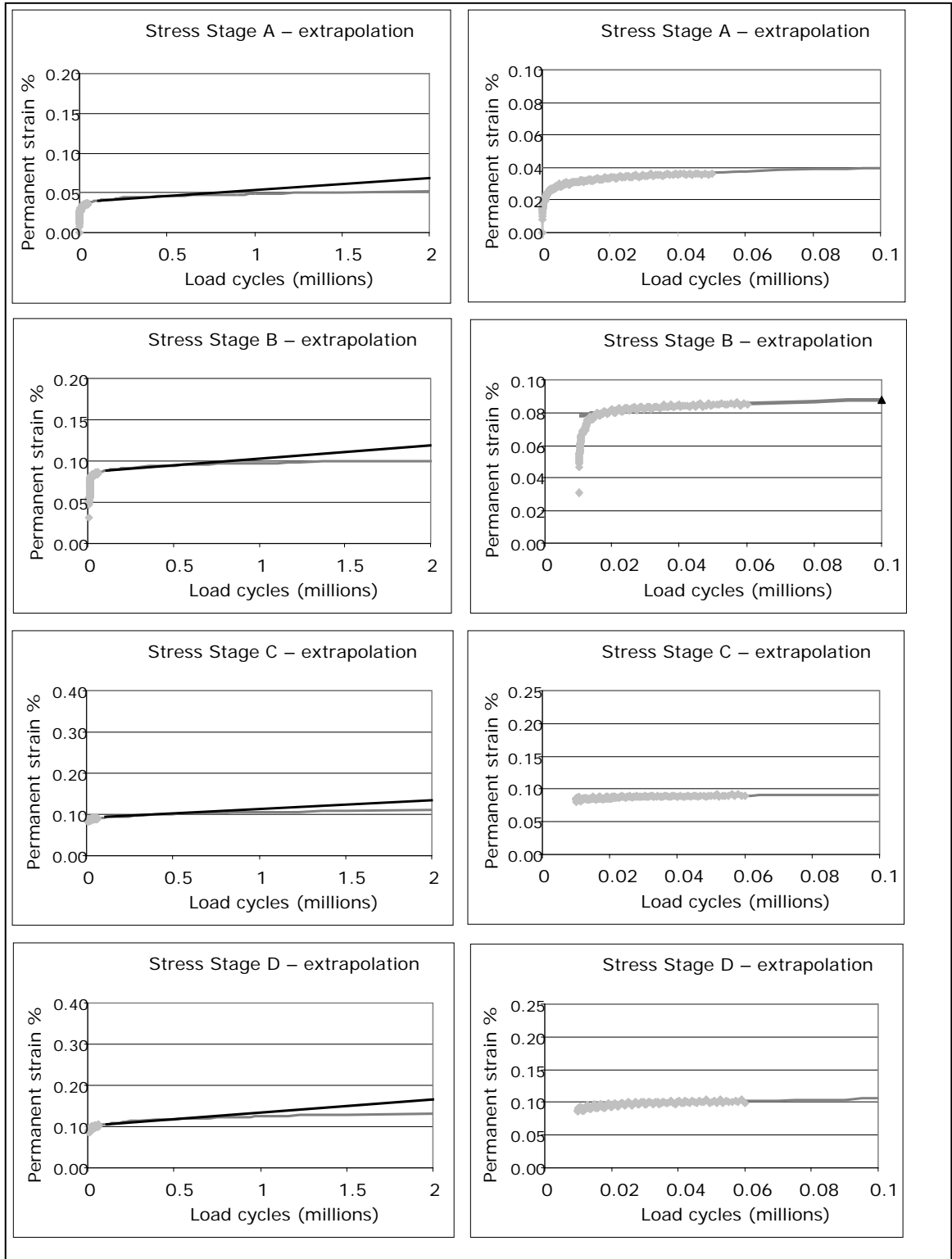


Figure C21 Extrapolated results of Test 10a.

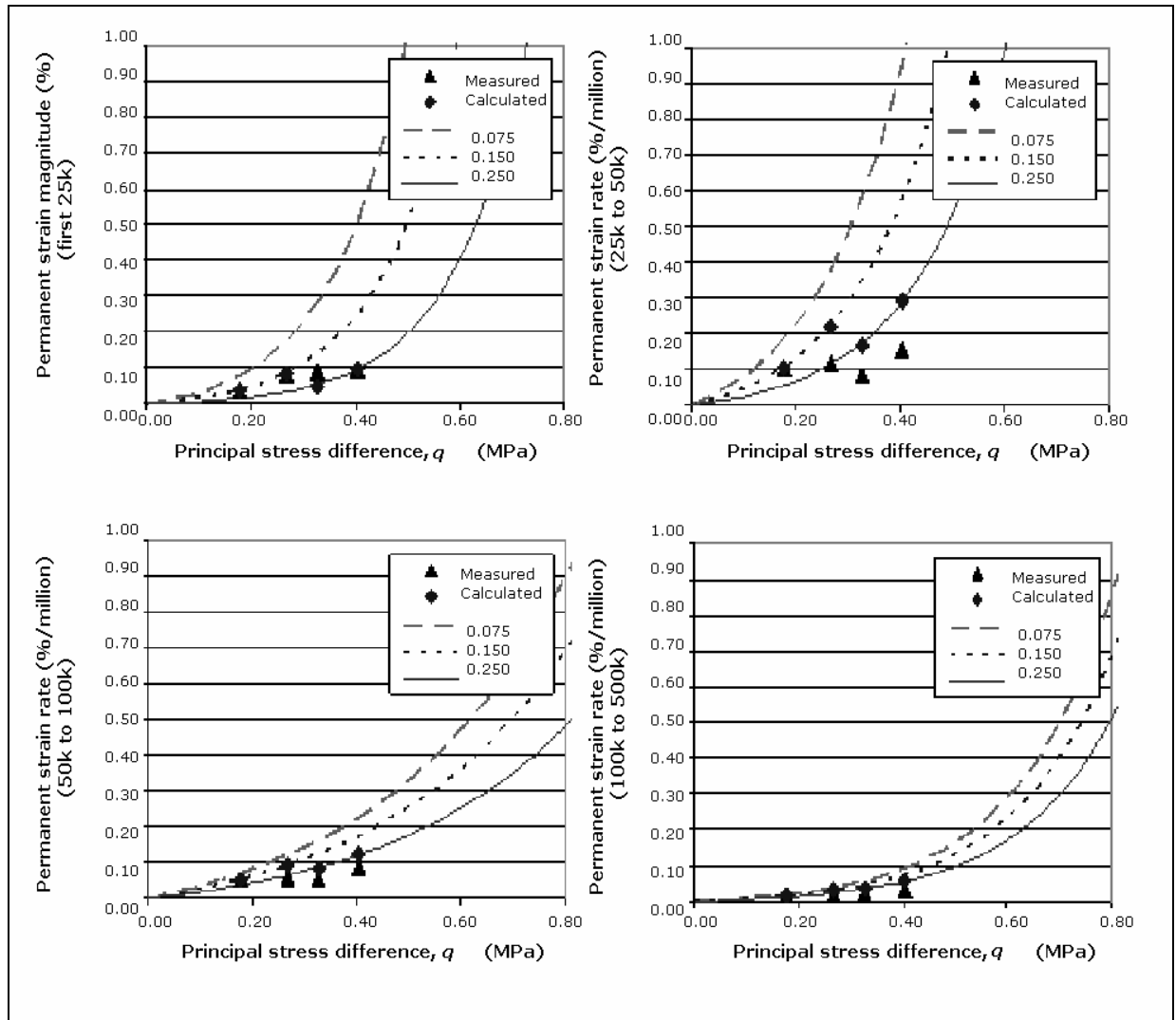


Figure C22 Fit between predicted and measured relationship between stress and permanent strain in Test 10a.

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