



CAUSEWAY
— GEOTECH

APPENDIX J

SPT HAMMER ENERGY MEASUREMENT REPORT





Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

Dynamic Sampling Uk Ltd
Unit 8 Victory Park
Victory Road
Derby
DE24 8ZF

Hammer Ref: D130 (Asset No. 1411)
Test Date: 25/04/2022
Report Date: 25/04/2022
File Name: D130.spt
Test Operator: B.HUNTER

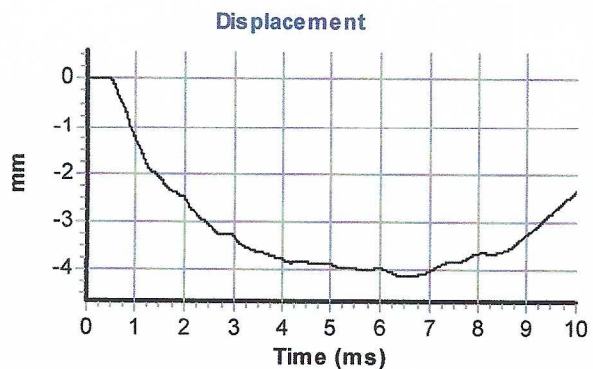
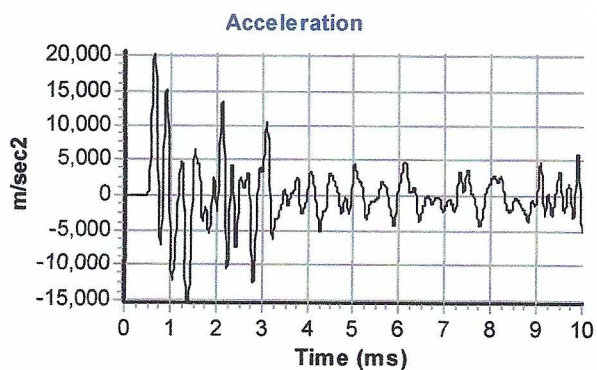
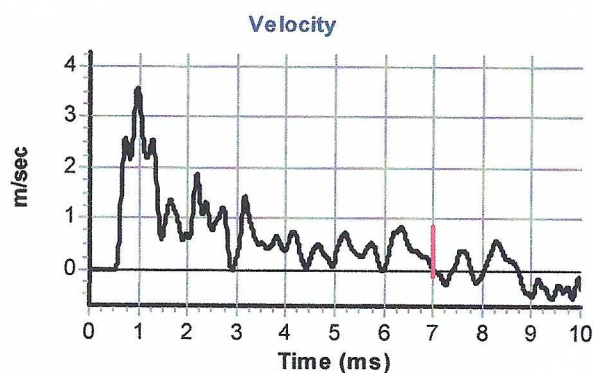
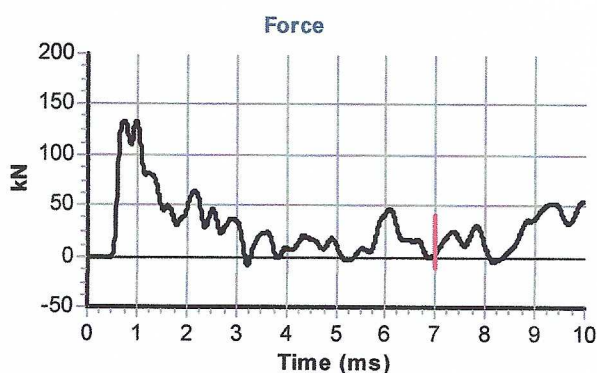
Instrumented Rod Data

Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.5
Assumed Modulus E_a (GPa): 208
Accelerometer No.1: 62901
Accelerometer No.2: 62902

Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
String Length L (m): 10.0

Comments / Location



Calculations

Area of Rod A (mm^2): 970
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 318

Energy Ratio E_r (%): **67**

Signed: B.Hunter
Title: Operations Manager

The recommended calibration interval is 12 months

Southern Testing
Unit 11
Charlwoods Road
East Grinstead
West Sussex
RH19 2HU

SPT Hammer Ref: 0643
Test Date: 12/02/2022
Report Date: 14/02/2022
File Name: 0643.spt
Test Operator: NPB

Instrumented Rod Data

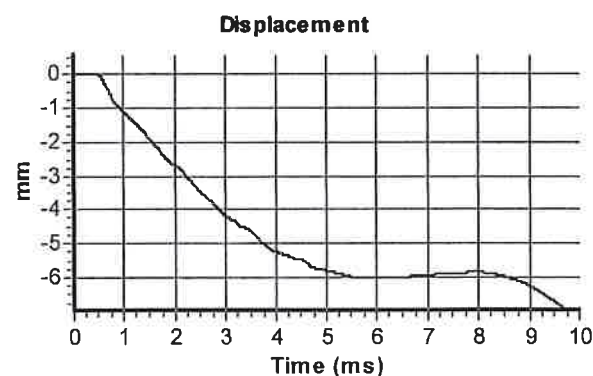
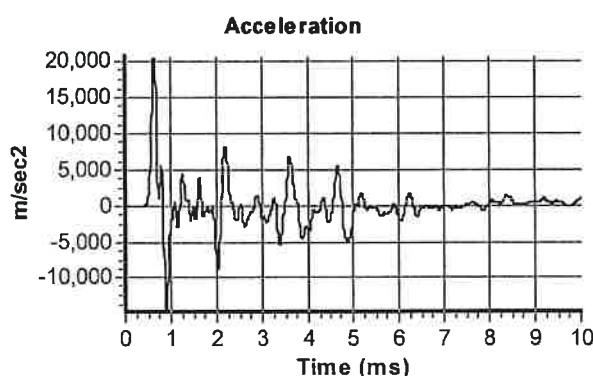
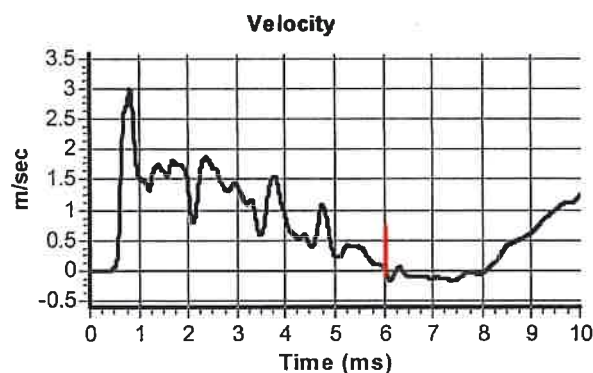
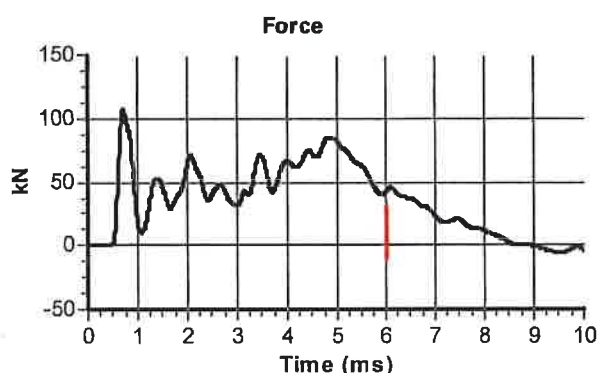
Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.0
Assumed Modulus E_a (GPa): 200
Accelerometer No.1: 64786
Accelerometer No.2: 64789

SPT Hammer Information

Hammer Mass m (kg): 63.0
Falling Height h (mm): 760
SPT String Length L (m): 12.0

Comments / Location

CAUSEWAY



Calculations

Area of Rod A (mm²): 905
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 340

Energy Ratio E_r (%): **72**

Signed: N Burrows
Title: FOC Manager

The recommended calibration interval is 12 months

Southern Testing
Unit 11
Charlwoods Road
East Grinstead
West Sussex
RH19 2HU

SPT Hammer Ref: 0208
Test Date: 12/02/2022
Report Date: 14/02/2022
File Name: 0208.spt
Test Operator: NPB

Instrumented Rod Data

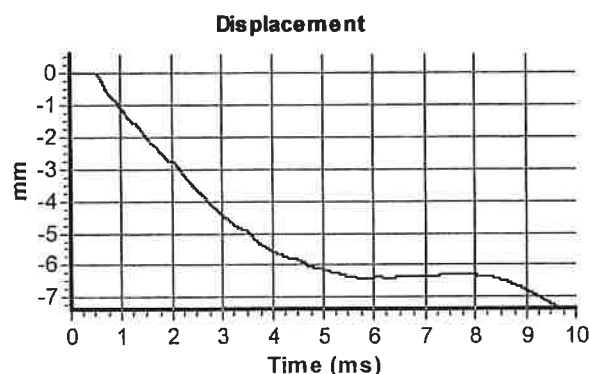
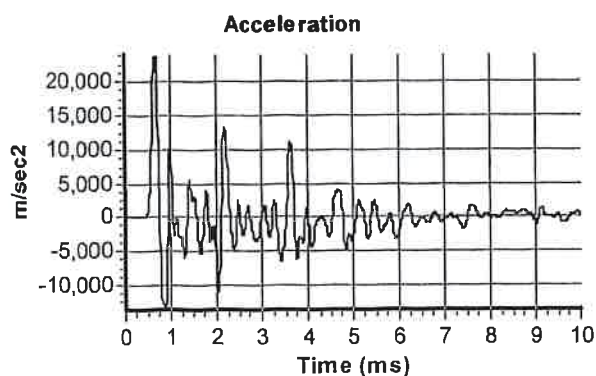
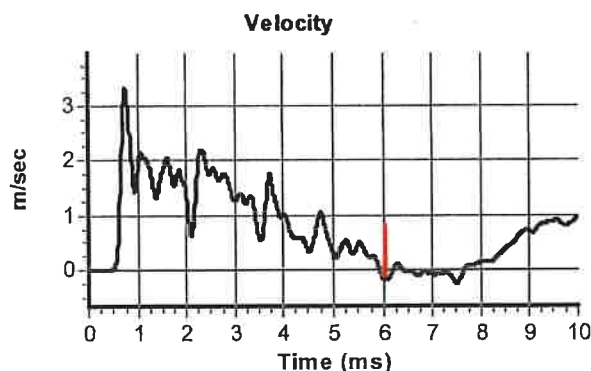
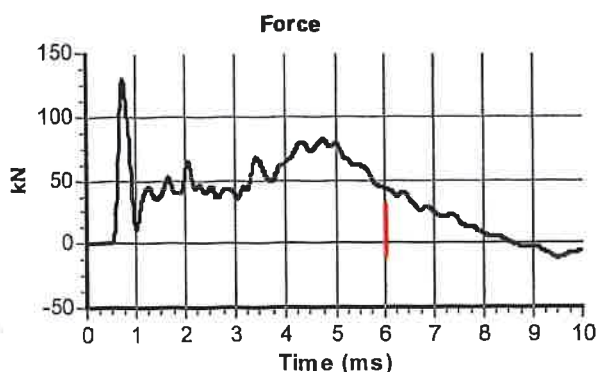
Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.0
Assumed Modulus E_a (GPa): 200
Accelerometer No.1: 64786
Accelerometer No.2: 64789

SPT Hammer Information

Hammer Mass m (kg): 63.0
Falling Height h (mm): 760
SPT String Length L (m): 12.0

Comments / Location

CAUSEWAY



Calculations

Area of Rod A (mm²): 905
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 357

Energy Ratio E_r (%):

76

Signed: N Burrows
Title: FOC Manager

The recommended calibration interval is 12 months



Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

Hammer Ref: D124
Test Date: 20/10/2021
Report Date:
File Name: D124.spt
Test Operator: B HUNTER

Instrumented Rod Data

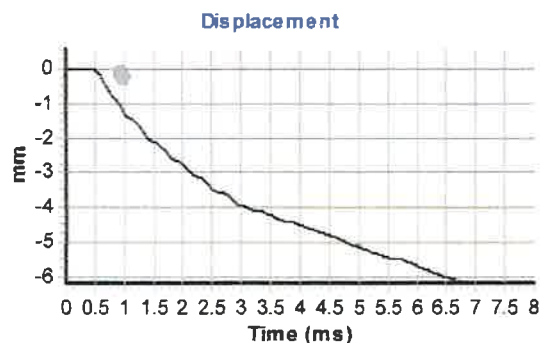
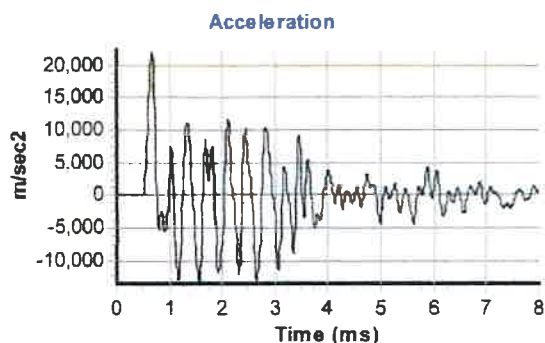
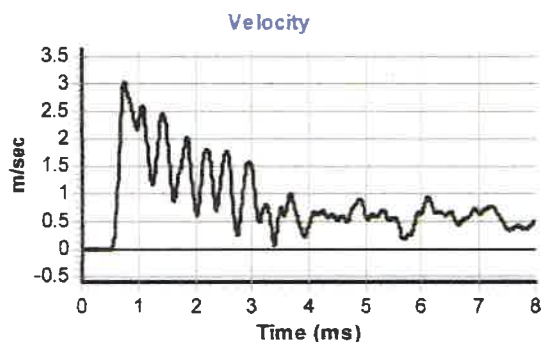
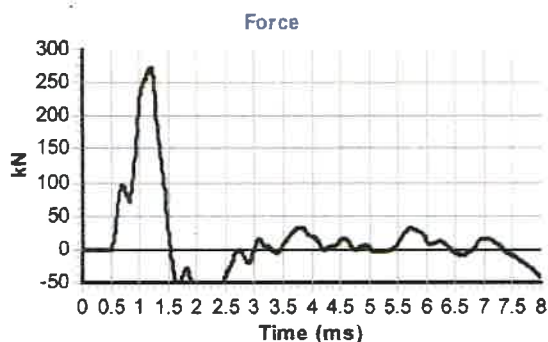
Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.0
Assumed Modulus E_a (GPa): 208
Accelerometer No.1: 62901
Accelerometer No.2: 62902

Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
String Length L (m): 10.0

Comments / Location

Asset 1384.
1386.



Calculations

Area of Rod A (mm^2): 905
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 260

Energy Ratio E_r (%): **55**

Signed:

Title:

Operations Manager

The recommended calibration interval is 12 months