Event Report

Date/Time: Tran at 11:44:24 July 29, 2021
Trigger Source: Geo: 1.000 mm/s
Range: Geo: 254.0 mm/s
Record Time: 3.0 sec at 1024 sps
Job Number: 1

Serial Number: BE17407 V 10.72-1.1 Minimate Blaster
Battery Level: 6.1 Volts
Unit Calibration: September 23, 2020 by CIMFR Dhanbad
File Name: S407J35X.Y00
Scaled Distance: 22.4 (100.0 m, 20.0 kg)

Notes:
Location: Pit-A
Client: Kathautia Open Cast Coal Mines, HIL
User Name: Nishikant Kumar
General: Coal Mine

Microphone: Linear Weighting
PSPL: 13.25 pa (L) at 0.396 sec
ZC Freq: 13 Hz
Channel Test: Passed (Freq = 19.7 Hz Amp = 450 mv )

PPV
Tran  Vert  Long
2.413  3.048  3.683 mm/s

ZC Freq
24    13    26 Hz

Time (Rel. to Trig)
0.104  0.365  0.090 sec

Peak Acceleration
0.066  0.066  0.080 g

Peak Displacement
0.016  0.027  0.023 mm

Sensor Check
Passed  Passed  Passed

Frequency
7.7    7.5    7.8 Hz

Overswing Ratio
3.6    3.4    3.5

Peak Vector Sum: 3.789 mm/s at 0.093 sec

Graphs showing MicL, Long, Vert, and Tran with Time Scale: 0.20 sec/div, Amplitude Scale: Geo: 2000 mm/s/div Mic: 10000 pa (L)/div, Sensor Check.
Event Report

Date/Time: Vert at 14:55:55 June 5, 2021
Trigger Source: Geo. 1.000 mm/s
Range: Geo. 254.0 mm/s
Record Time: 3.0 sec at 1024 sps
Job Number: 1

Notes:
Location: Pit-B
Client: Kathauta Open Cast Coal Mines, HIL
User Name: Nishikant Kumar
General: Coal Mine

Microphone:
PSPL: 6.500 pa (L) at 0.412 sec
ZC Freq: 19 Hz
Channel Test: Passed (Freq = 19 Hz, Amp = 436 mV)

PPV
Transverse: 2.921 mm/s
Vertical: 2.921 mm/s
Longitudinal: 2.921 mm/s

ZC Freq: 19 Hz
Time (Rel. to Trig): 0.335 sec
Peak Acceleration: 0.040 g
Peak Displacement: 0.026 mm
Sensor Check: Passed
Frequency: 7.8 Hz
Overswing Ratio: 3.5

Peak Vector Sum: 3.829 mm/s at 0.469 sec

Velocity (mm/s)

Frequency (Hz)

Sensor Check:
Transverse: Vert: Long: a

Time Scale: 0.20 sec/div
Amplitude Scale: Geo: 2.000 mm/s/div Mic: 10.000 pa (L)/div
Trigger =

Printed: June 25, 2021 (V 10.72 - 10.72)
Event Report

Date/Time: Long at 13:49:07 December 20, 2021
Trigger Source: Geo: 1.000 mm/s
Range: Geo: 254.0 mm/s
Record Time: 3.0 sec at 1024 sps
Job Number: 1

Notes
Location: Pit-B
Client: Kathautia Open Cast Coal Mines, HIL
User Name: Nishikant Kumar
General: Coal Mine

Microphone: Linear Weighting
PSPL: 10.00 pa (L) at 0.673 sec
ZC Freq: 7.9 Hz
Channel Test: Passed (Freq = 19.7 Hz Amp = 491 mv)

PPV
<table>
<thead>
<tr>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.016</td>
<td>1.270</td>
<td>1.143</td>
</tr>
</tbody>
</table>

ZC Freq
| 18 | 30 | 17 |

Time (Rel. to Trig)
| 0.362 | 0.224 | 0.084 |

Peak Acceleration
| 0.027 | 0.027 | 0.027 |

Peak Displacement
| 0.013 | 0.010 | 0.017 |

Sensor Check
Passed
Passed
Check

Frequency
<table>
<thead>
<tr>
<th>Tran + Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.6</td>
<td>7.6</td>
</tr>
</tbody>
</table>

Overswing Ratio
| 3.7 | 3.4 | 3.5 |

Peak Vector Sum: 1.380 mm/s at 0.224 sec
Event Report

Date/Time: Tran at 15:34:28 January 21, 2022
Trigger Source: Geo: 1.000 mm/s
Range: Geo: 254.0 mm/s
Record Time: 3.0 sec at 1024 sps
Job Number: 1

Notes:
Location: Pit-A
Client: Kathaundie Open Cast Coal Mines, HIL
User Name: Nishant Kumar
General: Coal Mine

Microphone: Linear Weighting
PSPL: 6.750 pa(L) at 0.444 sec
ZC Freq: 39 Hz
Channel Test: Passed (Freq = 19.7 Hz Amp = 489 mv )

PPV:
<table>
<thead>
<tr>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.032</td>
<td>1.778</td>
<td>2.032</td>
</tr>
</tbody>
</table>

ZC Freq:
<table>
<thead>
<tr>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>73</td>
<td>39</td>
<td>32</td>
</tr>
</tbody>
</table>

Time (Rel. to Trig):
<table>
<thead>
<tr>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.188</td>
<td>0.224</td>
<td>0.218</td>
</tr>
</tbody>
</table>

Peak Acceleration:
<table>
<thead>
<tr>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.093</td>
<td>0.053</td>
<td>0.093</td>
</tr>
</tbody>
</table>

Peak Displacement:
<table>
<thead>
<tr>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.008</td>
<td>0.007</td>
<td>0.009</td>
</tr>
</tbody>
</table>

Sensor Check:
<table>
<thead>
<tr>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passed</td>
<td>Passed</td>
<td>Passed</td>
</tr>
</tbody>
</table>

Frequency:
<table>
<thead>
<tr>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.9</td>
<td>7.6</td>
<td>8.1</td>
</tr>
</tbody>
</table>

Overswing Ratio:
<table>
<thead>
<tr>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.6</td>
<td>3.5</td>
<td>3.5</td>
</tr>
</tbody>
</table>

Peak Vector Sum: 2.293 mm/s at 0.005 sec

Serial Number: BE17407 V 10.72-1.1 Minimate Blaster
Battery Level: 6.1 Volts
Unit Calibration: November 19, 2021 by CIMFR Dhanbad
File Name: S407JC85 XGO
Scaled Distance: 22.4 (100.0 m, 20.0 kg)

USBM RI8507 And OSMRE

Frequency (Hz)

MicL

Long

Vert

Tran

Time Scale: 0.20 sec/div
Amplitude Scale: Geo: 2.000 mm/s/div Mic: 10,000 pa(L)/div
Trigger

Sensor Check

Printed: February 7, 2022 (V 10.72 - 10.72)
Date/Time: Vert at 15:50:09 February 21, 2022
Trigger Source: Geo: 1.000 mm/s
Range: Geo: 254.0 mm/s
Record Time: 3.0 sec at 1024 sps
Job Number: 1

Notes:
Location: Pit-A
Client: Kathautia Open Cast Coal Mines, HIL
UserName: Yogesh Dwivedi
General: Coal Mine

Microphone: Linear Weighting
PSPL: 23.00 pa (L) at 0.817 sec
ZC Freq: 20 Hz
Channel Test: Passed (Freq = 20.1 Hz Amp = 448 mv)

PPV: Tran 1.778, Vert 2.794, Long 2.921 mm/s
ZC Freq: Tran 28, Vert 27, Long 18 Hz
Time (Rel. to Trig): Tran 0.273, Vert 0.310, Long 0.339 sec
Peak Acceleration: Tran 0.040, Vert 0.066, Long 0.053 g
Peak Displacement: Tran 0.010, Vert 0.021, Long 0.024 mm
Sensor Check: Passed
Frequency: Tran 7.6, Vert 7.5, Long 8.1 Hz
Overswing Ratio: Tran 3.5, Vert 3.4, Long 3.4

Peak Vector Sum: 3.265 mm/s at 0.341 sec

Serial Number: BE17407 V 10.72-1.1 Minimine Blaster
Battery Level: 6.1 Volts
Unit Calibration: November 18, 2021 by CIMFR Dhanbad
File Name: S407JDTL BLO
Scaled Distance: 22.4 (100.0 m, 20.0 kg)

USBM R11607 and OSMRE

Frequency (Hz)
Tran: Vert: Long: 0

Printed: April 6, 2022 (V 10.72 - 10.72)
Event Report

Date/Time: Long at 14:59:14 March 11, 2022
Trigger Source: Geo: 1.000 mm/s
Range: Geo: 254.0 mm/s
Record Time: 3.0 sec at 1024 sps
Job Number: 1

Notes:
Location: Pit-A
Client: Kathautia Open Cast Coal Mines, HIL
User Name: Yogesh Dwivedi
General: Coal Mine

Microphone: Linear Weighting
PSPL: 10.50 pa (L) at 0.311 sec
ZC Freq: 13 Hz
Channel Test: Passed (Freq = 20.1 Hz Amp = 469 mv)

PPV
<table>
<thead>
<tr>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.524</td>
<td>1.524</td>
<td>1.143</td>
</tr>
</tbody>
</table>

ZC Freq
- Tran: 14
- Vert: 9.5
- Long: 9.8

Time (Rel. to Trig)
- Tran: 0.047
- Vert: 0.280
- Long: 0.048

Peak Acceleration
- Tran: 0.027 g
- Vert: 0.027 g
- Long: 0.013 g

Peak Displacement
- Tran: 0.024 mm
- Vert: 0.024 mm
- Long: 0.021 mm

Sensor Check
- Tran: Passed
- Vert: Passed
- Long: Passed

Frequency
- Tran: 7.5 Hz
- Vert: 7.6 Hz
- Long: 7.7 Hz

Overswing Ratio
- Tran: 3.6
- Vert: 3.4
- Long: 3.5

Peak Vector Sum: 2.102 mm/s at 0.048 sec

USBM RI8507 And OSMRE

Frequency (Hz)
- Tran: 1
- Vert: 1
- Long: 1

Printed: April 6, 2022 (V 19.72 - 10.72)