# Database Figures and Tables

## Tables

Table 1: Wear severities dimensions from image processing.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Case** | **Wear depth** |  | **Case** | **Wear depth** |  | **Case** | **Wear depth** |  | **Case** | **Wear depth** |
| Healthy |  | W9 |  | W18 |  | W27 |  |
| W1 |  | W10 |  | W19 |  | W28 |  |
| W2 |  | W11 |  | W20 |  | W29 |  |
| W3 |  | W12 |  | W21 |  | W30 |  |
| W4 |  | W13 |  | W22 |  | W31 |  |
| W5 |  | W14 |  | W23 |  | W32 |  |
| W6 |  | W15 |  | W24 |  | W33 |  |
| W7 |  | W16 |  | W25 |  | W34 |  |
| W8 |  | W17 |  | W26 |  | W35 |  |

Table 2: Wear depth dimensions for all teeth from image processing.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Case** | **Tooth** | **Wear depth** | **Case** | **Tooth** | **Wear depth** | **Case** | **Tooth** | **Wear depth** |
| Healthy | 1 |  | W1 | 1 |  | W2 | 1 |  |
| 2 | 2 |  | 2 |  |
| 3 | 3 |  | 3 |  |
| 4 | 4 |  | 4 |  |
| 5 | 5 |  | 5 |  |
| 6 | 6 |  | 6 |  |
| 7 | 7 |  | 7 |  |
| 8 | 8 |  | 8 |  |
| 9 | 9 |  | 9 |  |
| 10 | 10 |  | 10 |  |
| 11 | 11 |  | 11 |  |
| 12 | 12 |  | 12 |  |
| 13 | 13 |  | 13 |  |
| 14 | 14 |  | 14 |  |
| 15 | 15 |  | 15 |  |
| 16 | 16 |  | 16 |  |
| 17 | 17 |  | 17 |  |
| 18 | 18 |  | 18 |  |
| 19 | 19 |  | 19 |  |
| 20 | 20 |  | 20 |  |
| 21 | 21 |  | 21 |  |
| 22 | 22 |  | 22 |  |
| 23 | 23 |  | 23 |  |
| 24 | 24 |  | 24 |  |
| 25 | 25 |  | 25 |  |
| 26 | 26 |  | 26 |  |
| 27 | 27 |  | 27 |  |
| 28 | 28 |  | 28 |  |
| 29 | 29 |  | 29 |  |
| 30 | 30 |  | 30 |  |
| 31 | 31 |  | 31 |  |
| 32 | 32 |  | 32 |  |
| 33 | 33 |  | 33 |  |
| 34 | 34 |  | 34 |  |
| 35 | 35 |  | 35 |  |
| W3 | 1 |  | W4 | 1 |  | W5 | 1 |  |
| 2 |  | 2 |  | 2 |  |
| 3 |  | 3 |  | 3 |  |
| 4 |  | 4 |  | 4 |  |
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| 15 |  | 15 |  | 15 |  |
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| 31 |  | 31 |  | 31 |  |
| 32 |  | 32 |  | 32 |  |
| 33 |  | 33 |  | 33 |  |
| 34 |  | 34 |  | 34 |  |
| 35 |  | 35 |  | 35 |  |
| W6 | 1 |  | W7 | 1 |  | W8 | 1 |  |
| 2 |  | 2 |  | 2 |  |
| 3 |  | 3 |  | 3 |  |
| 4 |  | 4 |  | 4 |  |
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| 35 |  | 35 |  | 35 |  |
| W9 | 1 |  | W10 | 1 |  | W11 | 1 |  |
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| 34 |  | 34 |  | 34 |  |
| 35 |  | 35 |  | 35 |  |
| W12 | 1 |  | W13 | 1 |  | W14 | 1 |  |
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| 35 |  | 35 |  | 35 |  |
| W15 | 1 |  | W16 | 1 |  | W17 | 1 |  |
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| W18 | 1 |  | W19 | 1 |  | W20 | 1 |  |
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| 34 |  | 34 |  | 34 |  |
| 35 |  | 35 |  | 35 |  |
| W21 | 1 |  | W22 | 1 |  | W23 | 1 |  |
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| 34 |  | 34 |  | 34 |  |
| 35 |  | 35 |  | 35 |  |
| W24 | 1 |  | W25 | 1 |  | W26 | 1 |  |
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| 34 |  | 34 |  | 34 |  |
| 35 |  | 35 |  | 35 |  |
| W27 | 1 |  | W28 | 1 |  | W29 | 1 |  |
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| 33 |  | 33 |  | 33 |  |
| 34 |  | 34 |  | 34 |  |
| 35 |  | 35 |  | 35 |  |
| W30 | 1 |  | W31 | 1 |  | W32 | 1 |  |
| 2 |  | 2 |  | 2 |  |
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| 32 |  | 32 |  | 32 |  |
| 33 |  | 33 |  | 33 |  |
| 34 |  | 34 |  | 34 |  |
| 35 |  | 35 |  | 35 |  |
| W33 | 1 |  | W34 | 1 |  | W35 | 1 |  |
| 2 |  | 2 |  | 2 |  |
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| 35 |  | 35 |  | 35 |  |

Table 3: Vibration signals recording - Format YYYYMMDDHHMM.

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| --- | --- | --- | --- |
| **Record number** | **Record at 45 [RPS]** | **Record at 15 [RPS]** | **Status** |
| 1 | 202302131332 | 202302131613 | Healthy |
| 2 | 202302131333 | 202302131614 |
| 3 | 202302131334 | 202302131616 |
| 4 | 202302131335 | 202302131617 |
| 5 | 202302131337 | 202302131619 |
| 6 | 202302131338 | 202302131620 |
| 7 | 202302131339 | 202302131621 |
| 8 | 202302131340 | 202302131629 |
| 9 | 202302131349 | 202302131630 |
| 10 | 202302131350 | 202302131631 |
| 11 | 202302131353 | 202302131632 |
| 12 | 202302131354 | 202302131633 |
| 13 | 202302131355 | 202302131634 |
| 14 | 202302131356 | 202302131636 |
| 15 | 202302131357 | 202302131637 |
| 16 | 202302131406 | 202302131638 |
| 17 | 202302131407 | 202302131653 |
| 18 | 202302131408 | 202302131654 |
| 19 | 202302131410 | 202302131655 |
| 20 | 202302131412 | 202302131656 |
| 21 | 202302131413 | 202302131657 |
| 22 | 202302131414 | 202302131658 |
| 23 | 202302131415 | 202302131700 |
| 24 | 202302131416 | 202302131701 |
| 25 | 202302131442 | 202302131707 |
| 26 | 202302131444 | 202302131708 |
| 27 | 202302131445 | 202302131709 |
| 28 | 202302131446 | 202302131710 |
| 29 | 202302131447 | 202302131711 |
| 30 | 202302131448 | 202302131712 |
| 31 | 202302131449 | 202302131713 |
| 32 | 202302131450 | 202302131715 |
| 33 | 202302131502 | 202302131722 |
| 34 | 202302131504 | 202302131724 |
| 35 | 202302131505 | 202302131725 |
| 36 | 202302131506 | 202302131726 |
| 37 | 202302131507 | 202302131728 |
| 38 | 202302131508 | 202302131729 |
| 39 | 202302131509 | 202302131730 |
| 40 | 202302131510 | 202302131737 |
| 41 | 202302131520 | 202302131738 |
| 42 | 202302131521 | 202302131739 |
| 43 | 202302131522 | 202302131740 |
| 44 | 202302131523 | 202302131741 |
| 45 | 202302131525 | 202302131743 |
| 46 | 202302131527 | 202302131744 |
| 47 | 202302131528 | 202302131745 |
| 48 | 202302131537 | 202302131746 |
| 49 | 202302131538 | 202302131754 |
| 50 | 202302131539 | 202302131755 |
| 51 | 202302131540 | 202302131756 |
| 52 | 202302131541 | 202302131757 |
| 53 | 202302131542 | 202302131758 |
| 54 | 202302131544 | 202302131759 |
| 55 | 202302131545 | 202302131801 |
| 56 | 202302131546 | 202302131802 |
| 57 | 202302151433 | 202302151547 |
| 58 | 202302151434 | 202302151549 |
| 59 | 202302151435 | 202302151550 |
| 60 | 202302151436 | 202302151551 |
| 61 | 202302151437 | 202302151552 |
| 62 | 202302151438 | 202302151553 |
| 63 | 202302151439 | 202302151554 |
| 64 | 202302151441 | 202302151613 |
| 65 | 202302151501 | 202302151614 |
| 66 | 202302151502 | 202302151615 |
| 67 | 202302151503 | 202302151616 |
| 68 | 202302151504 | 202302151618 |
| 69 | 202302151505 | 202302151619 |
| 70 | 202302151506 | 202302151620 |
| 71 | 202302151508 | 202302151621 |
| 72 | 202302151509 | 202302151622 |
| 73 | 202302151516 | 202302151630 |
| 74 | 202302151517 | 202302151631 |
| 75 | 202302151518 | 202302151632 |
| 76 | 202302151519 | 202302151633 |
| 77 | 202302151520 | 202302151635 |
| 78 | 202302151522 | 202302151636 |
| 79 | 202302151523 | 202302151637 |
| 80 | 202302151524 | 202302151638 |
| 81 | 202302160928 | 202302161045 |
| 82 | 202302160929 | 202302161046 |
| 83 | 202302160930 | 202302161047 |
| 84 | 202302160931 | 202302161048 |
| 85 | 202302160932 | 202302161049 |
| 86 | 202302160933 | 202302161051 |
| 87 | 202302160934 | 202302161052 |
| 88 | 202302160935 | 202302161053 |
| 89 | 202302160952 | 202302161117 |
| 90 | 202302160953 | 202302161120 |
| 91 | 202302160954 | 202302161121 |
| 92 | 202302160955 | 202302161122 |
| 93 | 202302160956 | 202302161123 |
| 94 | 202302160957 | 202302161124 |
| 95 | 202302160958 | 202302161125 |
| 96 | 202302161000 | 202302161133 |
| 97 | 202302161007 | 202302161134 |
| 98 | 202302161008 | 202302161136 |
| 99 | 202302161010 | 202302161137 |
| 100 | 202302161012 | 202302161138 |
| 101 | 202302161013 | 202302161139 |
| 102 | 202302161014 | 202302161140 |
| 103 | 202302161015 | 202302161141 |
| 104 | 202302161022 | 202302161143 |
| 105 | 202302161023 | 202302161149 |
| 106 | 202302161025 | 202302161150 |
| 107 | 202302161026 | 202302161151 |
| 108 | 202302161027 | 202302161154 |
| 109 | 202302161028 | 202302161155 |
| 110 | 202302161029 | 202302161156 |
| 111 | 202302161030 | 202302161157 |
| 112 | 202302161031 | 202302161158 |
| 113 | 202302231422 | 202302231540 |
| 114 | 202302231424 | 202302231542 |
| 115 | 202302231425 | 202302231543 |
| 116 | 202302231427 | 202302231544 |
| 117 | 202302231428 | 202302231545 |
| 118 | 202302231429 | 202302231547 |
| 119 | 202302231430 | 202302231548 |
| 120 | 202302231431 | 202302231554 |
| 121 | 202302231451 | 202302231555 |
| 122 | 202302231452 | 202302231556 |
| 123 | 202302231453 | 202302231559 |
| 124 | 202302231454 | 202302231600 |
| 125 | 202302231455 | 202302231601 |
| 126 | 202302231456 | 202302231602 |
| 127 | 202302231458 | 202302231603 |
| 128 | 202302231459 | 202302231609 |
| 129 | 202302231514 | 202302231611 |
| 130 | 202302231515 | 202302231612 |
| 131 | 202302231516 | 202302231613 |
| 132 | 202302231518 | 202302231614 |
| 133 | 202302231519 | 202302231615 |
| 134 | 202302231520 | 202302231617 |
| 135 | 202302231521 | 202302231618 |
| 136 | 202302231522 | 202302231619 |
| 137 | 202302271553 | 202302271829 |
| 138 | 202302271554 | 202302271830 |
| 139 | 202302271556 | 202302271832 |
| 140 | 202302271557 | 202302271833 |
| 141 | 202302271559 | 202302271834 |
| 142 | 202302271600 | 202302271835 |
| 143 | 202302271601 | 202302271836 |
| 144 | 202302271609 | 202302271837 |
| 145 | 202302271610 | 202302271842 |
| 146 | 202302271611 | 202302271843 |
| 147 | 202302271613 | 202302271844 |
| 148 | 202302271614 | 202302271845 |
| 149 | 202302271615 | 202302271846 |
| 150 | 202302271616 | 202302271847 |
| 151 | 202302271617 | 202302271849 |
| 152 | 202302271618 | 202302271850 |
| 153 | 202302271624 | 202302271855 |
| 154 | 202302271625 | 202302271856 |
| 155 | 202302271627 | 202302271857 |
| 156 | 202302271631 | 202302271859 |
| 157 | 202302271632 | 202302271900 |
| 158 | 202302271633 | 202302271901 |
| 159 | 202302271634 | 202302271902 |
| 160 | 202302271636 | 202302281543 |
| 161 | 202302281222 | 202302281544 |
| 162 | 202302281224 | 202302281546 |
| 163 | 202302281225 | 202302281547 |
| 164 | 202302281226 | 202302281548 |
| 165 | 202302281227 | 202302281549 |
| 166 | 202302281228 | 202302281550 |
| 167 | 202302281229 | 202302281551 |
| 168 | 202302281230 | 202302281552 |
| 169 | 202302281231 | 202302281554 |
| 170 | 202302281234 | 202302281555 |
| 171 | 202302281235 | 202302281601 |
| 172 | 202302281236 | 202302281602 |
| 173 | 202302281237 | 202302281603 |
| 174 | 202302281238 | 202302281604 |
| 175 | 202302281239 | 202302281605 |
| 176 | 202302281240 | 202302281607 |
| 177 | 202302281241 | 202302281608 |
| 178 | 202302281242 | 202302281609 |
| 179 | 202302281244 | 202302281610 |
| 180 | 202302281245 | 202302281611 |
| 181 | 202302281247 | 202302281620 |
| 182 | 202302281248 | 202302281621 |
| 183 | 202302281250 | 202302281622 |
| 184 | 202302281251 | 202302281623 |
| 185 | 202302281252 | 202302281624 |
| 186 | 202302281253 | 202302281625 |
| 187 | 202302281254 | 202302281626 |
| 188 | 202302281255 | 202302281627 |
| 189 | 202302281257 | 202302281628 |
| 190 | 202302281258 | 202302281630 |
| 191 | 202302281300 | 202302281635 |
| 192 | 202302281301 | 202302281636 |
| 193 | 202302281302 | 202302281637 |
| 194 | 202302281303 | 202302281638 |
| 195 | 202302281304 | 202302281640 |
| 196 | 202302281306 | 202302281641 |
| 197 | 202302281307 | 202302281642 |
| 198 | 202302281308 | 202302281643 |
| 199 | 202302281309 | 202302281644 |
| 200 | 202302281310 | 202302281645 |
| 201 | 202302281330 | 202302281654 |
| 202 | 202302281331 | 202302281655 |
| 203 | 202302281332 | 202302281656 |
| 204 | 202302281333 | 202302281657 |
| 205 | 202302281334 | 202302281658 |
| 206 | 202302281335 | 202302281659 |
| 207 | 202302281336 | 202302281700 |
| 208 | 202302281338 | 202302281702 |
| 209 | 202302281339 | 202302281703 |
| 210 | 202302281340 | 202302281704 |
| 211 | 202302281344 | 202302281709 |
| 212 | 202302281345 | 202302281710 |
| 213 | 202302281346 | 202302281711 |
| 214 | 202302281347 | 202302281712 |
| 215 | 202302281348 | 202302281713 |
| 216 | 202302281349 | 202302281714 |
| 217 | 202302281350 | 202302281716 |
| 218 | 202302281352 | 202302281717 |
| 219 | 202302281353 | 202302281718 |
| 220 | 202302281354 | 202302281719 |
| 221 | 202302281358 | 202302281723 |
| 222 | 202302281359 | 202302281725 |
| 223 | 202302281400 | 202302281726 |
| 224 | 202302281401 | 202302281727 |
| 225 | 202302281402 | 202302281728 |
| 226 | 202302281403 | 202302281729 |
| 227 | 202302281405 | 202302281730 |
| 228 | 202302281406 | 202302281731 |
| 229 | 202302281407 | 202302281732 |
| 230 | 202302281408 | 202302281733 |
| 231 | 202302281412 | 202302281739 |
| 232 | 202302281413 | 202302281741 |
| 233 | 202302281414 | 202302281742 |
| 234 | 202302281415 | 202302281743 |
| 235 | 202302281416 | 202302281744 |
| 236 | 202302281418 | 202302281745 |
| 237 | 202302281419 | 202302281746 |
| 238 | 202302281420 | 202302281747 |
| 239 | 202302281421 | 202302281748 |
| 240 | 202302281427 | 202302281749 |
| 241 | 202302281428 | 202302281754 |
| 242 | 202302281429 | 202302281755 |
| 243 | 202302281431 | 202302281756 |
| 244 | 202302281432 | 202302281757 |
| 245 | 202302281433 | 202302281758 |
| 246 | 202302281434 | 202302281759 |
| 247 | 202302281436 | 202302281800 |
| 248 | 202302281437 | 202302281801 |
| 249 | 202302281438 | 202302281803 |
| 250 | 202302281451 | 202302281804 |
| 251 | 202304091222 | 202304091345 | W1 |
| 252 | 202304091252 | 202304091346 |
| 253 | 202304091253 | 202304091355 |
| 254 | 202304091254 | 202304091356 |
| 255 | 202304091301 | 202304091408 |
| 256 | 202304091307 | 202304091409 |
| 257 | 202304091308 | 202304091415 |
| 258 | 202304091309 | 202304091416 |
| 259 | 202304091747 | 202304091851 | W2 |
| 260 | 202304091748 | 202304091853 |
| 261 | 202304091757 | 202304091900 |
| 262 | 202304091805 | 202304091902 |
| 263 | 202304091806 | 202304091907 |
| 264 | 202304091807 | 202304091909 |
| 265 | 202304091814 | 202304091914 |
| 266 | 202304091820 | 202304091915 |
| 267 | 202304101054 | 202304101231 | W3 |
| 268 | 202304101055 | 202304101232 |
| 269 | 202304101107 | 202304101239 |
| 270 | 202304101109 | 202304101241 |
| 271 | 202304101117 | 202304101246 |
| 272 | 202304101119 | 202304101247 |
| 273 | 202304101126 | 202304101253 |
| 274 | 202304101127 | 202304101254 |
| 275 | 202304101549 | 202304101700 | W4 |
| 276 | 202304101550 | 202304101701 |
| 277 | 202304101610 | 202304101705 |
| 278 | 202304101611 | 202304101707 |
| 279 | 202304101618 | 202304101712 |
| 280 | 202304101619 | 202304101713 |
| 281 | 202304101625 | 202304101718 |
| 282 | 202304101626 | 202304101719 |
| 283 | 202304101913 | 202304102044 | W5 |
| 284 | 202304101915 | 202304102045 |
| 285 | 202304101924 | 202304102050 |
| 286 | 202304101925 | 202304102051 |
| 287 | 202304101931 | 202304102056 |
| 288 | 202304101933 | 202304102057 |
| 289 | 202304101939 | 202304102102 |
| 290 | 202304101940 | 202304102103 |
| 291 | 202304131741 | 202304131934 | W6 |
| 292 | 202304131742 | 202304131942 |
| 293 | 202304131755 | 202304131943 |
| 294 | 202304131756 | 202304131945 |
| 295 | 202304131802 | 202304131951 |
| 296 | 202304131803 | 202304131952 |
| 297 | 202304131810 | 202304131958 |
| 298 | 202304131812 | 202304131959 |
| 299 | 202304161132 | 202304161240 | W7 |
| 300 | 202304161133 | 202304161241 |
| 301 | 202304161147 | 202304161251 |
| 302 | 202304161148 | 202304161252 |
| 303 | 202304161155 | 202304161258 |
| 304 | 202304161156 | 202304161259 |
| 305 | 202304161203 | 202304161304 |
| 306 | 202304161204 | 202304161305 |
| 307 | 202304161701 | 202304161810 | W8 |
| 308 | 202304161702 | 202304161811 |
| 309 | 202304161714 | 202304161816 |
| 310 | 202304161715 | 202304161818 |
| 311 | 202304161721 | 202304161823 |
| 312 | 202304161722 | 202304161824 |
| 313 | 202304161728 | 202304161829 |
| 314 | 202304161729 | 202304161830 |
| 315 | 202304181308 | 202304181405 | W9 |
| 316 | 202304181319 | 202304181417 |
| 317 | 202304181320 | 202304181418 |
| 318 | 202304181321 | 202304181419 |
| 319 | 202304181327 | 202304181425 |
| 320 | 202304181328 | 202304181426 |
| 321 | 202304181334 | 202304181431 |
| 322 | 202304181335 | 202304181432 |
| 323 | 202304191311 | 202304191411 | W10 |
| 324 | 202304191312 | 202304191412 |
| 325 | 202304191323 | 202304191421 |
| 326 | 202304191324 | 202304191422 |
| 327 | 202304191331 | 202304191427 |
| 328 | 202304191337 | 202304191428 |
| 329 | 202304191338 | 202304191434 |
| 330 | 202304191339 | 202304191435 |
| 331 | 202304191913 | 202304192014 | W11 |
| 332 | 202304191914 | 202304192015 |
| 333 | 202304191925 | 202304192023 |
| 334 | 202304191926 | 202304192024 |
| 335 | 202304191932 | 202304192029 |
| 336 | 202304191933 | 202304192030 |
| 337 | 202304191941 | 202304192034 |
| 338 | 202304191942 | 202304192035 |
| 339 | 202304201209 | 202304201316 | W12 |
| 340 | 202304201220 | 202304201318 |
| 341 | 202304201221 | 202304201324 |
| 342 | 202304201222 | 202304201325 |
| 343 | 202304201229 | 202304201330 |
| 344 | 202304201230 | 202304201331 |
| 345 | 202304201236 | 202304201336 |
| 346 | 202304201237 | 202304201337 |
| 347 | 202304231225 | 202304231320 | W13 |
| 348 | 202304231226 | 202304231321 |
| 349 | 202304231236 | 202304231328 |
| 350 | 202304231237 | 202304231330 |
| 351 | 202304231243 | 202304231336 |
| 352 | 202304231244 | 202304231337 |
| 353 | 202304231249 | 202304231342 |
| 354 | 202304231250 | 202304231343 |
| 355 | 202304231715 | 202304231807 | W14 |
| 356 | 202304231716 | 202304231808 |
| 357 | 202304231724 | 202304231815 |
| 358 | 202304231725 | 202304231816 |
| 359 | 202304231730 | 202304231821 |
| 360 | 202304231731 | 202304231822 |
| 361 | 202304231737 | 202304231827 |
| 362 | 202304231738 | 202304231828 |
| 363 | 202304232100 | 202304232150 | W15 |
| 364 | 202304232101 | 202304232151 |
| 365 | 202304232108 | 202304232156 |
| 366 | 202304232109 | 202304232158 |
| 367 | 202304232115 | 202304232203 |
| 368 | 202304232116 | 202304232204 |
| 369 | 202304232121 | 202304232208 |
| 370 | 202304232122 | 202304232209 |
| 371 | 202305011224 | 202305011320 | W16 |
| 372 | 202305011225 | 202305011321 |
| 373 | 202305011234 | 202305011328 |
| 374 | 202305011235 | 202305011329 |
| 375 | 202305011241 | 202305011335 |
| 376 | 202305011242 | 202305011336 |
| 377 | 202305011248 | 202305011341 |
| 378 | 202305011249 | 202305011342 |
| 379 | 202305012001 | 202305012051 | W17 |
| 380 | 202305012002 | 202305012052 |
| 381 | 202305012009 | 202305012058 |
| 382 | 202305012010 | 202305012059 |
| 383 | 202305012015 | 202305012104 |
| 384 | 202305012016 | 202305012105 |
| 385 | 202305012022 | 202305012111 |
| 386 | 202305012023 | 202305012112 |
| 387 | 202305021319 | 202305021420 | W18 |
| 388 | 202305021320 | 202305021421 |
| 389 | 202305021328 | 202305021428 |
| 390 | 202305021329 | 202305021429 |
| 391 | 202305021335 | 202305021434 |
| 392 | 202305021336 | 202305021435 |
| 393 | 202305021342 | 202305021441 |
| 394 | 202305021343 | 202305021442 |
| 395 | 202305031351 | 202305031456 | W19 |
| 396 | 202305031352 | 202305031504 |
| 397 | 202305031401 | 202305031505 |
| 398 | 202305031402 | 202305031506 |
| 399 | 202305031409 | 202305031511 |
| 400 | 202305031410 | 202305031512 |
| 401 | 202305031416 | 202305031517 |
| 402 | 202305031417 | 202305031518 |
| 403 | 202305071129 | 202305071230 | W20 |
| 404 | 202305071130 | 202305071231 |
| 405 | 202305071142 | 202305071238 |
| 406 | 202305071143 | 202305071239 |
| 407 | 202305071152 | 202305071245 |
| 408 | 202305071153 | 202305071246 |
| 409 | 202305071158 | 202305071304 |
| 410 | 202305071159 | 202305071305 |
| 411 | 202305071650 | 202305071748 | W21 |
| 412 | 202305071651 | 202305071749 |
| 413 | 202305071658 | 202305071756 |
| 414 | 202305071700 | 202305071757 |
| 415 | 202305071707 | 202305071803 |
| 416 | 202305071708 | 202305071804 |
| 417 | 202305071714 | 202305071809 |
| 418 | 202305071715 | 202305071810 |
| 419 | 202305101851 | 202305140943 | W22 |
| 420 | 202305101852 | 202305140953 |
| 421 | 202305101902 | 202305140955 |
| 422 | 202305101904 | 202305140956 |
| 423 | 202305101910 | 202305141002 |
| 424 | 202305101911 | 202305141004 |
| 425 | 202305101917 | 202305141009 |
| 426 | 202305101918 | 202305141010 |
| 427 | 202305141639 | 202305141754 | W23 |
| 428 | 202305141640 | 202305141755 |
| 429 | 202305141649 | 202305141800 |
| 430 | 202305141650 | 202305141801 |
| 431 | 202305141731 | 202305141808 |
| 432 | 202305141732 | 202305141809 |
| 433 | 202305141738 | 202305141815 |
| 434 | 202305141739 | 202305141816 |
| 435 | 202305231736 | 202305231831 | W24 |
| 436 | 202305231737 | 202305231833 |
| 437 | 202305231744 | 202305231837 |
| 438 | 202305231745 | 202305231839 |
| 439 | 202305231751 | 202305231845 |
| 440 | 202305231752 | 202305231846 |
| 441 | 202305231758 | 202305231851 |
| 442 | 202305231759 | 202305231852 |
| 443 | 202305241852 | 202305241945 | W25 |
| 444 | 202305241853 | 202305241946 |
| 445 | 202305241900 | 202305241952 |
| 446 | 202305241907 | 202305241953 |
| 447 | 202305241908 | 202305241958 |
| 448 | 202305241909 | 202305241959 |
| 449 | 202305241915 | 202305242004 |
| 450 | 202305241916 | 202305242006 |
| 451 | 202305301727 | 202305301825 | W26 |
| 452 | 202305301728 | 202305301826 |
| 453 | 202305301737 | 202305301832 |
| 454 | 202305301742 | 202305301833 |
| 455 | 202305301743 | 202305301838 |
| 456 | 202305301745 | 202305301839 |
| 457 | 202305301753 | 202305301846 |
| 458 | 202305301754 | 202305301847 |
| 459 | 202305311922 | 202305312017 | W27 |
| 460 | 202305311923 | 202305312019 |
| 461 | 202305311931 | 202305312024 |
| 462 | 202305311932 | 202305312025 |
| 463 | 202305311939 | 202305312030 |
| 464 | 202305311940 | 202305312032 |
| 465 | 202305311946 | 202305312038 |
| 466 | 202305311947 | 202305312039 |
| 467 | 202306011145 | 202306040953 | W28 |
| 468 | 202306011146 | 202306040958 |
| 469 | 202306011153 | 202306040959 |
| 470 | 202306011154 | 202306041000 |
| 471 | 202306011159 | 202306041006 |
| 472 | 202306011209 | 202306041007 |
| 473 | 202306040919 | 202306041011 |
| 474 | 202306040920 | 202306041012 |
| 475 | 202306041825 | 202306041916 | W29 |
| 476 | 202306041832 | 202306041917 |
| 477 | 202306041833 | 202306041922 |
| 478 | 202306041834 | 202306041928 |
| 479 | 202306041840 | 202306041929 |
| 480 | 202306041846 | 202306041930 |
| 481 | 202306041847 | 202306041935 |
| 482 | 202306041848 | 202306041936 |
| 483 | 202306071522 | 202306071615 | W30 |
| 484 | 202306071523 | 202306071620 |
| 485 | 202306071529 | 202306071621 |
| 486 | 202306071530 | 202306071622 |
| 487 | 202306071536 | 202306071627 |
| 488 | 202306071537 | 202306071628 |
| 489 | 202306071543 | 202306071633 |
| 490 | 202306071544 | 202306071634 |
| 491 | 202306081211 | 202306081301 | W31 |
| 492 | 202306081212 | 202306081303 |
| 493 | 202306081218 | 202306081308 |
| 494 | 202306081224 | 202306081309 |
| 495 | 202306081226 | 202306081314 |
| 496 | 202306081231 | 202306081315 |
| 497 | 202306081232 | 202306081320 |
| 498 | 202306081233 | 202306081321 |
| 499 | 202306091644 | 202306091741 | W32 |
| 500 | 202306091645 | 202306091745 |
| 501 | 202306091652 | 202306091746 |
| 502 | 202306091657 | 202306091748 |
| 503 | 202306091658 | 202306091752 |
| 504 | 202306091704 | 202306091753 |
| 505 | 202306091711 | 202306091758 |
| 506 | 202306091715 | 202306091759 |
| 507 | 202306111416 | 202306111505 | W33 |
| 508 | 202306111417 | 202306111506 |
| 509 | 202306111423 | 202306111511 |
| 510 | 202306111424 | 202306111512 |
| 511 | 202306111430 | 202306111517 |
| 512 | 202306111431 | 202306111518 |
| 513 | 202306111438 | 202306111523 |
| 514 | 202306111441 | 202306111524 |
| 515 | 202306131432 | 202306131525 | W34 |
| 516 | 202306131437 | 202306131526 |
| 517 | 202306131439 | 202306131533 |
| 518 | 202306131445 | 202306131538 |
| 519 | 202306131446 | 202306131539 |
| 520 | 202306131447 | 202306131540 |
| 521 | 202306131452 | 202306131545 |
| 522 | 202306131453 | 202306131547 |
| 523 | 202306151019 | 202306151112 | W35 |
| 524 | 202306151020 | 202306151113 |
| 525 | 202306151026 | 202306151120 |
| 526 | 202306151034 | 202306151122 |
| 527 | 202306151036 | 202306151127 |
| 528 | 202306151037 | 202306151128 |
| 529 | 202306151043 | 202306151133 |
| 530 | 202306151044 | 202306151134 |

Table 4: Recordings examples at Figure 3 and Figure 4- Format YYYYMMDDHHMM.

|  |  |  |  |
| --- | --- | --- | --- |
| **Record number** | **45 [RPS]** | **15 [RPS]** | **Status** |
| 1 | 202302281451 | 202302281804 | Healthy |
| 2 | 202304091309 | 202304091416 | W1 |
| 3 | 202304091820 | 202304091915 | W2 |
| 4 | 202304101127 | 202304101254 | W3 |
| 5 | 202304101626 | 202304101719 | W4 |
| 6 | 202304101940 | 202304102103 | W5 |
| 7 | 202304131812 | 202304131959 | W6 |
| 8 | 202304161204 | 202304161305 | W7 |
| 9 | 202304161729 | 202304161830 | W8 |
| 10 | 202304181335 | 202304181419 | W9 |
| 11 | 202304191339 | 202304191435 | W10 |
| 12 | 202304191942 | 202304192035 | W11 |
| 13 | 202304201237 | 202304201337 | W12 |
| 14 | 202304231250 | 202304231343 | W13 |
| 15 | 202304231738 | 202304231828 | W14 |
| 16 | 202304232122 | 202304232209 | W15 |
| 17 | 202305011249 | 202305011342 | W16 |
| 18 | 202305012023 | 202305012112 | W17 |
| 19 | 202305021343 | 202305021442 | W18 |
| 20 | 202305031417 | 202305031518 | W19 |
| 21 | 202305071159 | 202305071305 | W20 |
| 22 | 202305071715 | 202305071810 | W21 |
| 23 | 202305101918 | 202305141010 | W22 |
| 24 | 202305141739 | 202305141816 | W23 |
| 25 | 202305231759 | 202305231852 | W24 |
| 26 | 202305241916 | 202305242006 | W25 |
| 27 | 202305301754 | 202305301847 | W26 |
| 28 | 202305311947 | 202305312039 | W27 |
| 29 | 202306040920 | 202306041012 | W28 |
| 30 | 202306041848 | 202306041936 | W29 |
| 31 | 202306071544 | 202306071634 | W30 |
| 32 | 202306081233 | 202306081321 | W31 |
| 33 | 202306091715 | 202306091759 | W32 |
| 34 | 202306111441 | 202306111524 | W33 |
| 35 | 202306131453 | 202306131547 | W34 |
| 36 | 202306151044 | 202306151134 | W35 |

Table 5: RMS values from the vibration signals.

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Table 6: Normalized Frequency Modulation Energy (FME) from the vibration spectrum.

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| **Record number** | **Normalized FME at high speed** | **Normalized FME at low speed** | **Status** |
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## Figures

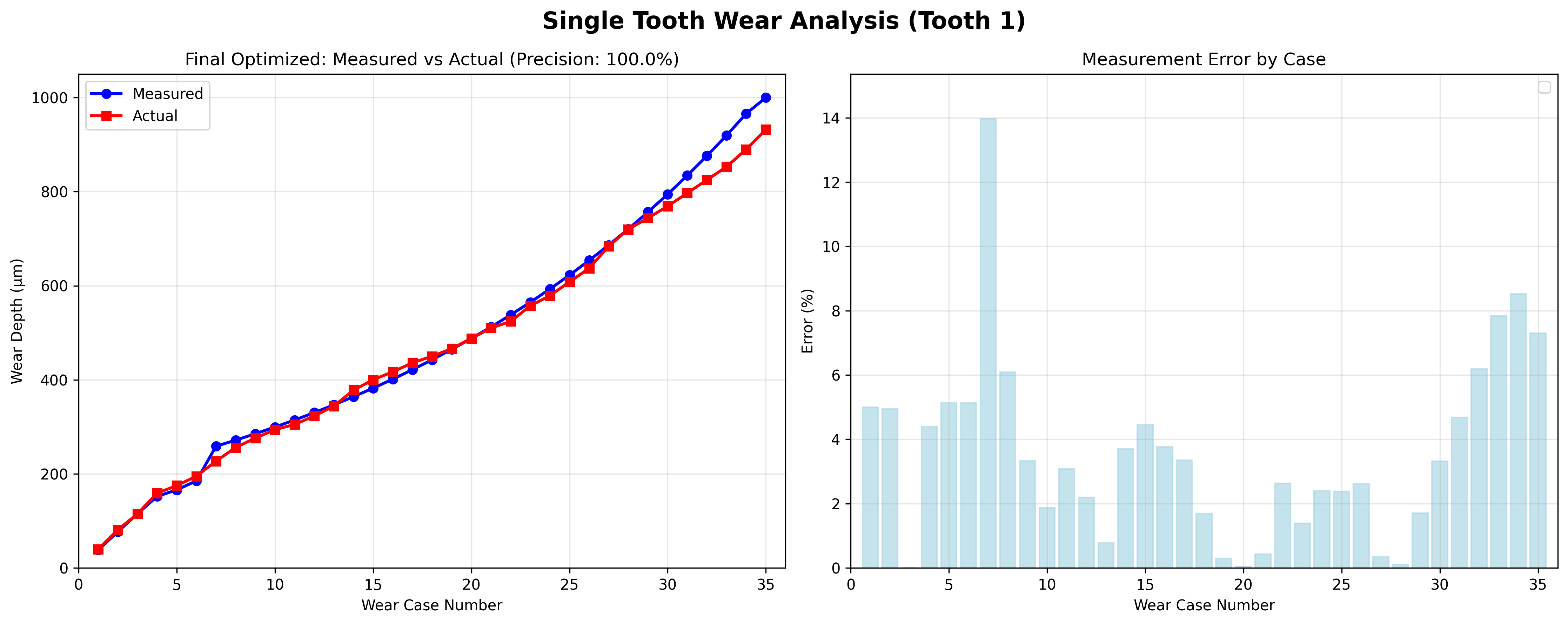


Figure 1: Comparison of wear depth from image processing and actual measurements of tooth 1.

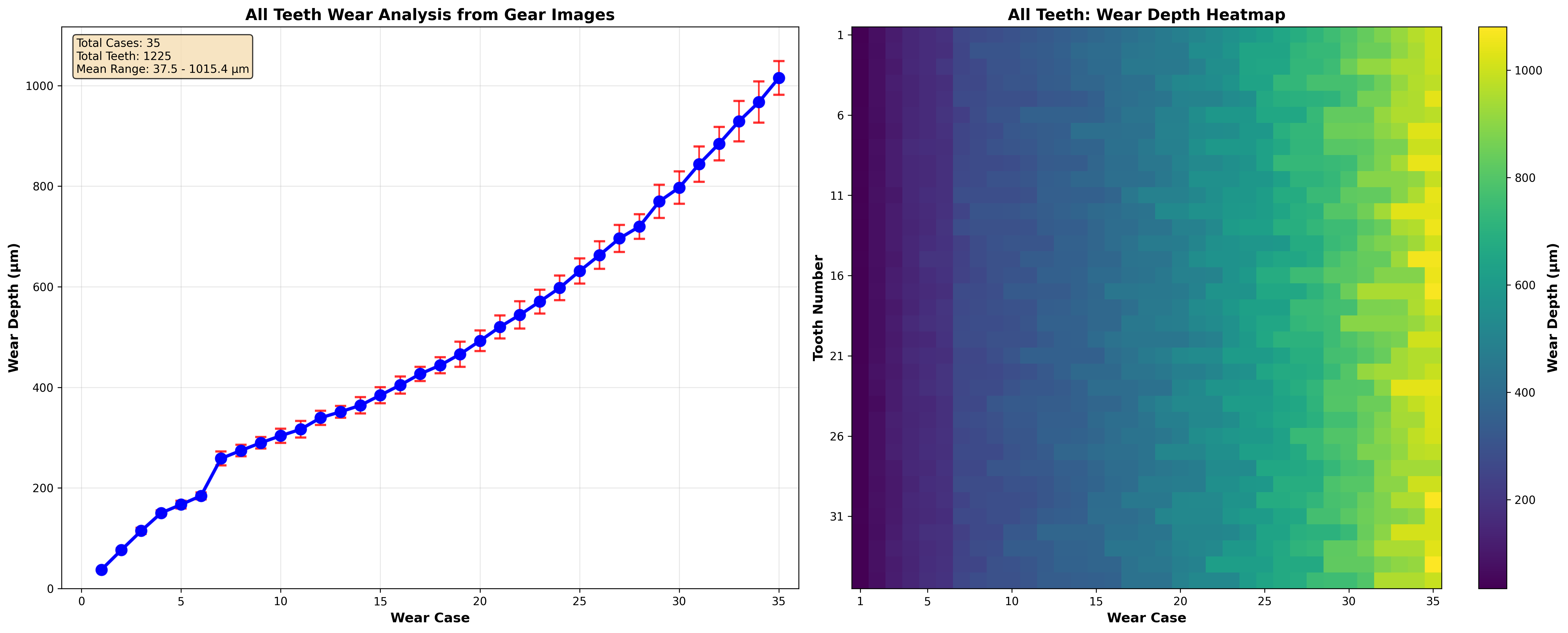


Figure 2: Mean wear depth at all wear cases and heat map for wear growth at all teeth.

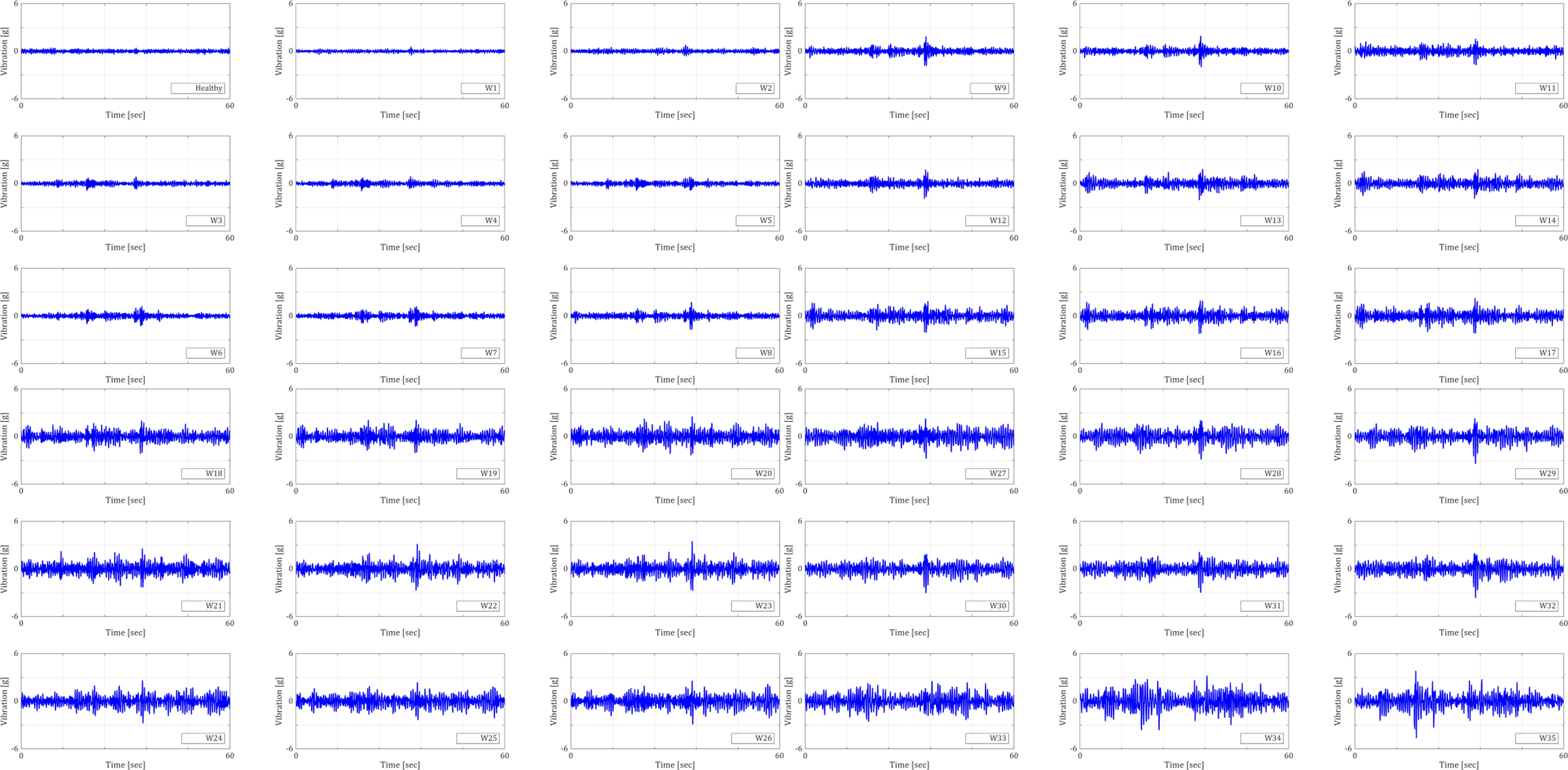


Figure 3: Examples of vibration signals at low speed, the records mentioned at Table 4 .

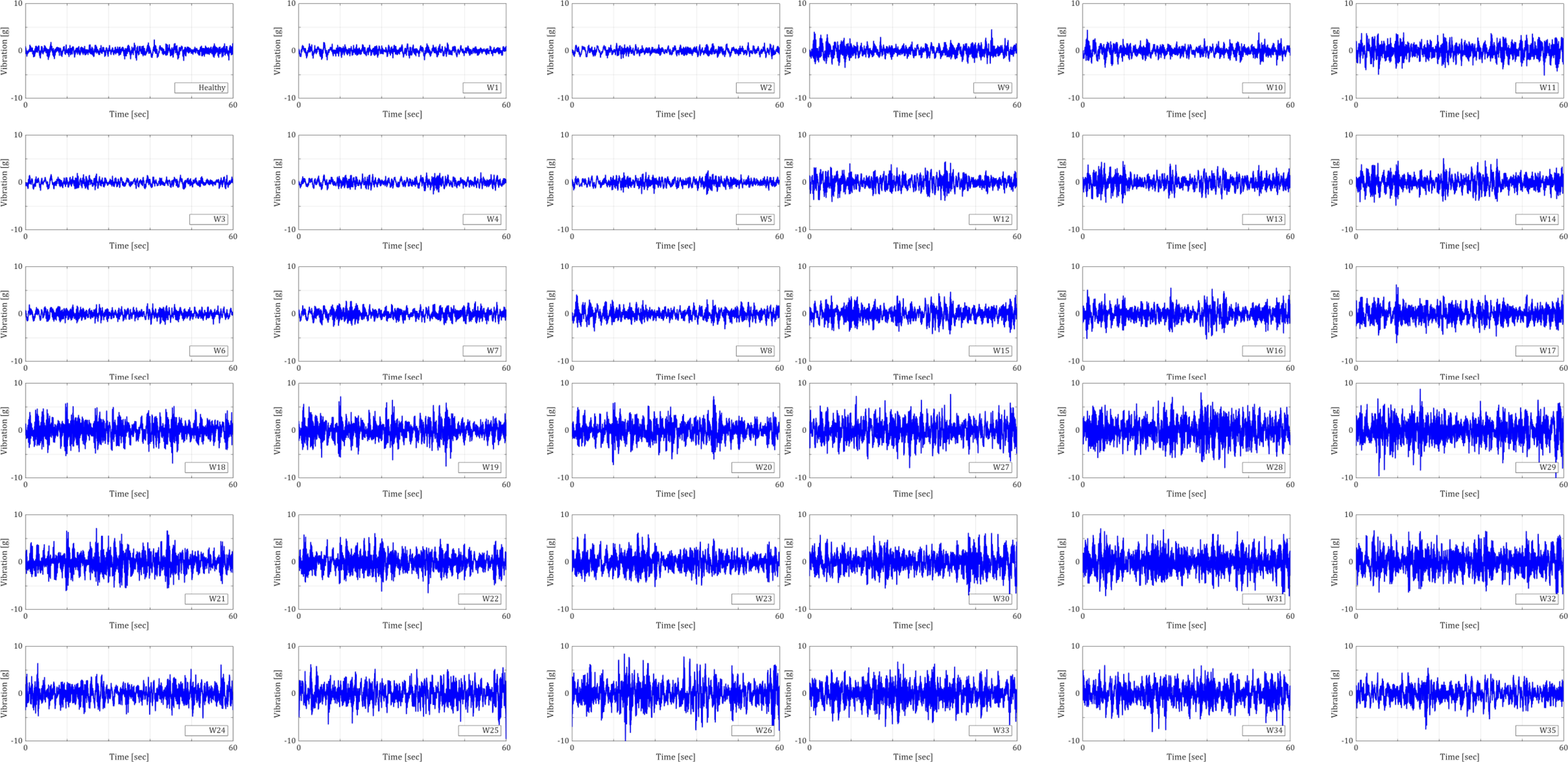


Figure 4: Examples of vibration signals at low speed, the records mentioned at Table 4.