



Friction / wear test - cumulative wear - Main test protocol

WAX / DRIP / DRIP - WET / GREASE

|                                    | Block 1 - No Contamination | Block 2 - Dry Cont. | Block 3 - No Cont. | Block 4 - Wet cont. | Block 5 - No Cont. | Block 6 - Extreme Cont. | Extrapolated chain lifespan - blocks 1-5 | Extrapolated wear based on block 1 only | Extrapolated wear based on block 2 only | Extrapolated wear Based on Block 4 only | Extrapolated wear Based on Block 6 only |
|------------------------------------|----------------------------|---------------------|--------------------|---------------------|--------------------|-------------------------|--|---|---|---|---|
| Slica Hot Melt                     | 0.3%                       | 2.0%                | 6.6%               | 14.6%               | 19.0%              | 27.4%                   | 25,000                                   | 25,000                                  | 25,000                                  | 12,500                                  | 11,628                                  |
| Mapeelwax New Formula              | 0.0%                       | 1.1%                | 1.7%               | 10.8%               | 11.9%              | 31.6%                   | 25,000                                   | 25,000                                  | 25,000                                  | 10,990                                  | 5,076                                   |
| Effecto Mariposa Flower power wax  | 2.3%                       | 4.6%                | 4.6%               | 36.6%               | 48.0%              | 80.0%                   | 25,000                                   | 23,364                                  | 25,000                                  | 5,464                                   | 3,571                                   |
| Ceramic Spd UFO Drip New Formula   | 2.3%                       | 5.7%                | 6.3%               | 38.6%               | 55.6%              | 92.2%                   | 8,992                                    | 25,000                                  | 15,873                                  | 3,095                                   | 2,732                                   |
| Molten Speed Wax Original Formula  | 0.0%                       | 12.0%               | 12.0%              | 20.0%               | 20.0%              | 98.0%                   | 25,000                                   | 25,000                                  | 8,333                                   | 12,500                                  | 1,282                                   |
| Tru Tension Tungsten All Weather   | 14.0%                      | 24.0%               | 36.0%              | 67.0%               | 85.0%              | 117.0%                  | 5,882                                    | 7,143                                   | 10,000                                  | 3,226                                   | 3,125                                   |
| Squirt                             | 14.6%                      | 20.3%               | 25.4%              | 58.0%               | 84.0%              | 121.1%                  |  |   |   |   |   |
| Slica Super Secret Drip            | 2.9%                       | 7.5%                | 7.5%               | 44.4%               | 73.4%              | 133.0%                  | 6,811                                    | 25,000                                  | 21,739                                  | 2,710                                   | 1,515                                   |
| Slica Synergic                     | 0.0%                       | 18.3%               | 42.6%              | 70.0%               | 91.7%              | 147.0%                  | 5,452                                    | 25,000                                  | 5,464                                   | 3,649                                   | 1,808                                   |
| Tru Tension Tungsten Race - (TD.A) | 5.4%                       | 7.4%                | 9.7%               | 48.0%               | 78.0%              |                         | 6,410                                    | 18,519                                  | 25,000                                  | 2,610                                   | 1,300                                   |
| Slica Synergic-E                   | 2.0%                       | 9.7%                | 29.4%              | 102.9%              |                    |                         | 3,887                                    | 25,000                                  | 12,987                                  | 1,362                                   | 691                                     |
| Rox Black Diamond                  | 2.3%                       | 13.4%               | 30.0%              | 79%                 | 97.1%              |                         | 5,154                                    | 25,000                                  | 9,009                                   | 2,349                                   | 1,174                                   |
| Smooove                            | 19.1%                      | 36.6%               | 38.6%              | 67.3%               | 118.0%             |                         | 4,423                                    | 5,235                                   | 5,747                                   | 2,217                                   | 1,109                                   |
| Revolubes                          | 4.0%                       | 22.3%               | 39.7%              | 101.4%              | 170.0%             |                         | 4,166                                    | 25,000                                  | 5,464                                   | 1,620                                   | 810                                     |
| Shimano Factory grease + NFS       | 10.9%                      | 31.8%               | 46.1%              | 74.7%               | 147.2%             |                         | 4,500                                    | 9,174                                   |   |   |   |
| Rox Domestique                     | 5.1%                       | 33.7%               | 48.8%              | 99%                 |                    |                         | 4,301                                    | 19,607                                  | 3,496                                   | 2,288                                   | 1,144                                   |
| Wax Free Shun                      | 12.6%                      | 40.0%               | 54.3%              | 82.9%               | 155.0%             |                         | 3,907                                    | 7,937                                   | 3,650                                   | 3,495                                   | 1,748                                   |
| Rock N Roll Gold                   | 8.9%                       | 37.9%               | 57.9%              | 122.0%              |                    |                         | 3,460                                    | 11,235                                  | 3,448                                   | 1,538                                   | 769                                     |
| Shimano Factory grease + RNR Gold  | 10.9%                      | 39.0%               | 59.0%              | 124%                |                    |                         | 3,225                                    | 9,174                                   |   |   |   |
| Allied GRAX                        | 22.0%                      | 40.3%               | 59.1%              | 101.0%              |                    |                         | 3,960                                    | 4,545                                   | 5,464                                   | 2,380                                   |   |
| Squirt                             | 19.1%                      | 39.0%               | 61.0%              | 109.4%              |                    |                         | 3,670                                    | 5,235                                   | 4,545                                   | 2,045                                   | 1,023                                   |
| Bonshield T9 - Aerosol             | 11.1%                      | 43.4%               | 65.7%              | 113.1%              |                    |                         | 3,539                                    | 9,009                                   | 3,095                                   | 2,109                                   | 1,054                                   |
| AB Graphene Wax                    | 22.0%                      | 60.3%               | 85.1%              | 188.7%              |                    |                         | 3,150                                    | 4,545                                   | 1,658                                   | 965                                     | 482                                     |
| Waxd wax 2                         | 35.7%                      | 69.4%               | 98.0%              |                     |                    |                         | 3,061                                    | 2,801                                   | 2,967                                   | 1,500                                   | 750                                     |
| Cycle Star Gold                    | 27.3%                      | 53.1%               | 98.3%              |                     |                    |                         | 3,052                                    | 4,484                                   | 3,236                                   | 1,690                                   | 890                                     |
| Wolf tooth wt-1 on factory grease  | 17.7%                      | 54.8%               | 103.1%             |                     |                    |                         | 3,894                                    | 25,000                                  | 12,987                                  | 1,170                                   | 684                                     |
| Wolf tooth wt-1                    | 16.9%                      | 69.7%               | 123.7%             |                     |                    |                         | 2,425                                    | 5,917                                   | 1,890                                   | 947                                     | 472                                     |
| Muc Off C3 Ceramic Dry             | 10.6%                      | 72.3%               | 124.6%             |                     |                    |                         | 2,407                                    | 9,433                                   | 1,621                                   | 811                                     | 406                                     |
| White Lightning Epic Ride          | 22.9%                      | 56.5%               | 160.7%             |                     |                    |                         | 2,249                                    | 4,366                                   | 1,769                                   | 890                                     | 490                                     |
| Muc Off Ludicrous AF               | 8.9%                       | 89.6%               |                    |                     |                    |                         | 2,320                                    | 8,900                                   | 1,282                                   | 641                                     | 320                                     |
| Shimano Factory Grease             | 10.9%                      | 31.7%               |                    |                     |                    |                         | 2,000                                    | 9,174                                   | 4,785                                   |   |   |
| Muc Off Hydro Dynamic              | 27.6%                      | 126.6%              |                    |                     |                    |                         | 1,580                                    | 3,623                                   | 1,011                                   | 505                                     | 253                                     |
| Muc Off Nano Lube                  | 37.7%                      | 145.4%              |                    |                     |                    |                         | 1,375                                    | 2,652                                   | 928                                     | 500                                     | 250                                     |
| Finish line Ceramic Wax            | 72.3%                      | 218.9%              | 289.2%             | 578.4%              | 650.7%             |                         | 768                                      | 1,383                                   | 461                                     | 231                                     | 115                                     |
| Average                            | 10%                        | 28.5%               | 45%                | 75.0%               | 77%                | 89.7%                   |  |   |   |   |   |
| Top 5 Lubes Avg                    | 5%                         | 20.1%               | 36%                | 75.2%               | 87%                | #DU/01                  |  |   |   |   |   |
| Worst 5 Lubes Avg                  | 4%                         | 9.9%                | #REF!              | #REF!               | 77%                |                         |  |   |   |   |   |

Red = extrapolated data as test stopped before testing this block. Block 4 - 2x block 2 result. Block 6 = 2 x Block 4 result

Wear by block

WAX / DRIP / DRIP - WET / GREASE

|                                   | Block 1 - No Contamination | Block 2 - Dry Cont. | Block 3 - No Cont. | Block 4 - Wet cont. | Block 5 - No Cont. | Block 6 - Extreme Cont. | Ultegra chains blocks 1 to 5 | Ultegra cassettes block 1 to 5 | Ultegra chain rings blocks 1-5 | Ultegra chains extrapolated to 10,000km | Ultegra cassettes extrapolated to 10,000km | Ultegra chain rings extrapolated to 10,000km | Dura Ace Chains |
|-----------------------------------|----------------------------|---------------------|--------------------|---------------------|--------------------|-------------------------|------------------------------|--------------------------------|--------------------------------|---|--|--|-----------------|
| Rox 4+1                           | 0.3%                       | 0.0%                | 0.9%               | 18.3%               | 2.0%               | 28.0%                   |                              |                                |                                |   |  |  |                 |
| Mapeelwax New Formula             | 0.0%                       | 1.1%                | 0.6%               | 9.1%                | 1.1%               | 19.7%                   | 0.2                          | 0.1                            | 0.03                           | 0.4                                     | 0.2  | 0.07   | 0.2             |
| Slica Hot Melt                    | 0.3%                       | 1.7%                | 4.6%               | 8.0%                | 4.0%               | 8.6%                    | 0.20                         | 0.1                            | 0.03                           | 0.4                                     | 0.2  | 0.07   | 0.2             |
| Tru Tension Tungsten Race (D.A)   | 5.4%                       | 2.0%                | 2.3%               | 38.3%               | 30.0%              | 76.6%                   | 0.78                         | 0.39                           | 0.13                           | 1.6                                     | 0.8  | 0.26   | 0.78            |
| Effecto Mariposa Flower power wax | 2.3%                       | 2.3%                | 0.0%               | 32.0%               | 11.4%              | 32.0%                   | 0.49                         | 0.245                          | 0.081                          | 0.98                                    | 0.49                                       | 0.162  | 0.49            |
| Ceramic Spd UFO Drip New Formula  | 2.3%                       | 3.4%                | 0.6%               | 32.3%               | 17.0%              | 36.6%                   | 0.56                         | 0.3                            | 0.09                           | 1.11                                    | 0.56                                       | 0.19   | 0.6             |
| Slica Super Secret Drip           | 2.9%                       | 4.6%                | 0.0%               | 36.9%               | 29.4%              | 66.0%                   | 0.73                         | 0.4                            | 0.12                           | 1.5                                     | 0.7  | 0.24   | 0.73            |
| Tension 5-wax                     | 14.6%                      | 5.7%                | 5.1%               | 32.6%               | 26.6%              | 36.5%                   |                              |                                |                                |   |  |  |                 |
| Slica Synergic-E                  | 2.0%                       | 7.7%                | 19.7%              | 73.4%               |                    |                         | 1.28                         | 0.64                           | 0.21                           | 2.6                                     | 1.3  | 0.42   | 1.28            |
| Tru Tension Tungsten All Weather  | 14.0%                      | 10.0%               | 12.0%              | 31.0%               | 18.0%              | 32.0%                   | 0.85                         | 0.4                            | 0.14                           | 1.7                                     | 0.9  | 0.28   | 0.85            |
| Rox Black Diamond                 | 2.3%                       | 11.1%               | 17.0%              | 42.6%               | 24.3%              | 39.7%                   | 0.97                         | 0.485                          | 0.16                           | 1.94                                    | 0.97                                       | 0.32   | 0.97            |
| Molten Speed Wax Original Formula | 0.0%                       | 12.0%               | 0.0%               | 8.0%                | 0.0%               | 78.0%                   | 0.20                         | 0.1                            | 0.03                           | 0.4                                     | 0.2  | 0.07   | 0.2             |
| Smooove                           | 19.1%                      | 17.4%               | 2.0%               | 45.1%               | 34.3%              | 90.2%                   | 1.13                         | 0.6                            | 0.23                           | 2.3                                     | 1.1  | 0.38   | 1.13            |
| Revolubes                         | 4.0%                       | 18.3%               | 17.4%              | 61.7%               |                    |                         | 1.20                         | 0.6                            | 0.20                           | 2.4                                     | 1.2  | 0.40   | 1.2             |
| Allied GRAX                       | 22.0%                      | 18.3%               | 18.9%              | 42.0%               |                    |                         | 1.25                         | 0.63                           | 0.21                           | 2.5                                     | 1.25                                       | 0.42   | 1.25            |
| Slica Synergic                    | 0.0%                       | 18.6%               | 24.3%              | 27.4%               | 21.7%              | 55.3%                   | 0.92                         | 0.46                           | 0.15                           | 1.8                                     | 0.9  | 0.31   | 0.9             |
| Shimano Factory Grease            | 10.9%                      | 20.8%               |                    |                     |                    |                         |                              |                                |                                |   |  |  |                 |
| Squirt                            | 19.1%                      | 22.0%               | 18.0%              | 48.9%               |                    |                         | 1.36                         | 0.7                            | 0.23                           | 2.7                                     | 1.4  | 0.45   | 1.36            |
| Shimano Factory Grease + NFS      | 10.9%                      | 27.4%               | 14.3%              | 28.6%               | 72.5%              | 57.2%                   |                              |                                |                                |   |  |  |                 |
| Wax Free Shun                     | 12.6%                      | 27.4%               | 14.3%              | 28.6%               | 72.5%              | 57.2%                   | 1.28                         | 0.6                            | 0.21                           | 2.6                                     | 1.3  | 0.43   | 1.3             |
| Rox Domestique                    | 5.1%                       | 28.6%               | 15.1%              | 43.7%               |                    |                         | 1.18                         | 0.58                           | 0.19                           | 2.32                                    | 1.16                                       | 0.38   | 1.16            |
| Rock N Roll Gold                  | 8.9%                       | 29.0%               | 20.0%              | 65.0%               | 58.0%              | 116.0%                  | 1.45                         | 0.7                            | 0.24                           | 2.9                                     | 1.4  | 0.48   | 1.4             |
| Shimano Factory Grease + RNR gold | 10.9%                      | 29.0%               | 20.0%              | 65.0%               |                    |                         | 1.30                         |                                |                                |   |  |  |                 |
| Cycle Star Gold                   | 22.3%                      | 30.9%               | 45.1%              | 69.8%               | 123.6%             |                         | 1.64                         | 0.8                            | 0.27                           | 3.28                                    | 1.64                                       | 0.55   | 1.64            |
| Bonshield T9 - Aerosol            | 11.1%                      | 32.1%               | 23.5%              | 47.4%               |                    |                         | 1.41                         | 0.7                            | 0.23                           | 3.2                                     | 1.6  | 0.46   | 1.6             |
| Waxd Wax 2                        | 35.7%                      | 33.6%               | 67.4%              |                     |                    |                         | 1.63                         | 0.8                            | 0.27                           | 3.27                                    | 1.63                                       | 0.54   | 1.6             |
| White Lightning Epic Ride         | 22.9%                      | 33.7%               | 104.3%             | 67.4%               |                    |                         | 2.22                         | 1.1                            | 0.37                           | 4.4                                     | 2.2  | 0.74   | 2.22            |
| Wolf tooth WT-1 on factory grease | 17.7%                      | 37.1%               | 48.3%              |                     |                    |                         | 1.59                         | 0.79                           | 0.25                           | 3.2                                     | 1.6  | 0.55   | 1.59            |
| AB Graphene Wax                   | 22.0%                      | 38.3%               | 24.5%              | 103.6%              |                    | 207.2%                  | 2.08                         | 1.07                           | 0.35                           | 4.1                                     | 2.0  | 0.68   | 2.08            |
| Squirt                            | 16.9%                      | 52.9%               | 54.0%              | 105.8%              |                    |                         | 2.10                         | 1.1                            | 0.35                           | 4.2                                     | 2.1  | 0.70   | 2.10            |
| Muc Off C3 Ceramic Dry            | 10.6%                      | 61.7%               | 62.3%              |                     |                    |                         | 2.15                         | 1.07                           | 0.36                           | 4.3                                     | 2.14                                       | 0.72   | 2.15            |
| Muc Off Ludicrous AF              | 8.9%                       | 78%                 |                    | 156.0%              |                    |                         | 2.5                          | 1.3                            | 0.42                           | 5                                       | 2.5  | 0.83   | 2.5             |
| Muc Off Hydro Dynamic             | 27.6%                      | 98.9%               | 27.6%              | 197.8%              | 27.6%              | 197.8%                  | 3.64                         | 1.9                            | 0.61                           | 7.3                                     | 3.64                                       | 1.21   | 3.64            |
| Muc Off Nano                      | 37.7%                      | 145.4%              | 22.3%              | 215.4%              | 22.3%              | 158.4%                  | 6.50                         | 3.3                            | 1.08                           | 13.0                                    | 6.6  | 2.16   | 6.50            |
| Finish line Ceramic Wax           | 72.3%                      | 218.9%              | 22.3%              | 289.2%              | 22.3%              | 158.4%                  |                              |                                |                                |   |  |  |                 |
| Average All lubes                 | 7.1%                       | 12.4%               | 9.4%               | 34.4%               | 24.3%              | 51.4%                   | (5000/row i)                 | row i/2                        | row i/6                        | row i x 2                               | row i x 2                                  | row i x 2                                    | row i x 2       |
| Top 5 Lubes Avg                   | 5.5%                       |                     |                    |                     |                    |                         |                              |                                |                                |   |  |  |                 |
| Worst 5 Lubes Avg                 | 29.2%                      |                     |                    |                     |                    |                         |                              |                                |                                |   |  |  |                 |
| Top 5 Drip Lubes                  | 3.9%                       |                     |                    |                     |                    |                         |                              |                                |                                |   |  |  |                 |
| Worst 5 Drip Lubes Avg            | 25.9%                      |                     |                    |                     |                    |                         |                              |                                |                                |   |  |  |                 |

equals row i

\*If no data as did not make this far in test

| Blocks 1 to 5 - main test |                      | Blocks 1 to 5 - main test                |   |   | Blocks 2 Dry Contamination             |   |   | Blocks 2 Dry Contamination              |  |  |  |      |
|---------------------------|----------------------|--|---|---|--|---|---|---|--|--|--|------|
| Dura Ace cassettes        | Dura ace chain rings | Dura Ace chains extrapolated to 10,000km | Dura Ace cassettes extrapolated to 10,000km | Dura ace chain rings extrapolated to 10,000km | GRX 810 chains Dry contamination block | GRX 810 cassettes Dry Contamination Block | Ultegra chain rings Dry Contamination Block | GRX 810 chains extrapolated to 10,000km | GRX 810 cassettes extrapolated to 10,000km | GRX 810 Chain ring sextrapolated to 10,000km | GRX 810 chains Wet contamination block |      |
| 0.2                       | 0.03                 |  | 0.4   | 0.4   | 0.07                                   | 0.2                                       | 0.1   | 0.03                                    | 0.4  | 0.2  | 0.07                                   | 0.4  |
| 0.2                       | 0.03                 |  | 0.4   | 0.4   | 0.09                                   | 0.2                                       | 0.10  | 0.03                                    | 0.4  | 0.2  | 0.07                                   | 0.4  |
| 0.8                       | 0.13                 |  | 1.56  | 1.56  | 0.26                                   | 0.2                                       | 0.10  | 0.03                                    | 0.4  | 0.2  | 0.07                                   | 1.9  |
| 0.98                      | 0.081                |  | 0.98  | 1.56  | 0.162                                  | 0.23                                      | 0.115                                       | 0.038                                   | 0.46                                       | 0.23   | 0.08                                   | 1.6  |
| 0.6                       | 0.09                 |  | 1.1   | 1.1   | 0.19                                   | 0.3                                       | 0.16  | 0.05                                    | 0.6  | 0.3  | 0.11                                   | 1.6  |
| 0.7                       | 0.12                 |  | 1.47  | 1.47  | 0.24                                   | 0.2                                       | 0.12  | 0.04                                    | 0.5  | 0.2  | 0.08                                   | 1.8  |
|                           |                      |  |   |   |  |   |   |   |  |  |  |      |
| 1.28                      | 0.21                 | 2.56                                     | 2.56  | 2.56  | 0.42                                   | 0.39                                      | 0.19  | 0.07                                    | 0.8  | 0.4  | 0.14                                   | 3.7  |
| 0.9                       | 0.14                 |  | 1.70  | 1.70  | 0.28                                   | 0.5                                       | 0.25  | 0.08                                    | 1.0  | 0.5  | 0.17                                   | 1.5  |
| 0.97                      | 0.16                 |  | 1.94  | 1.94  | 0.32                                   | 0.55                                      | 0.27  | 0.09                                    |  | 0.54   | 0.18                                   | 2.13 |
| 0.2                       | 0.03                 | 0.4                                      | 0.4   | 0.4   | 0.07                                   | 0.6                                       | 0.30  | 0.10                                    | 1.2  | 1.1  | 0.20                                   | 0.4  |
| 1.1                       | 0.19                 | 2.3                                      | 2.3   | 2.3   | 0.38                                   | 0.9                                       | 0.44  | 0.15                                    | 1.7  | 0.9  | 0.29                                   | 2.3  |
| 1.2                       | 0.20                 | 2.4                                      | 2.4   | 2.4   | 0.40                                   | 0.9                                       | 0.45  | 0.15                                    | 1.8  | 0.9  | 0.3                                    | 3.08 |
| 1.25                      | 0.21                 | 2.5                                      | 2.5   | 2.5   | 0.42                                   | 0.9                                       | 0.45  | 0.15                                    | 1.8  | 0.9  | 0.30                                   | 2.1  |
| 0.9                       | 0.15                 | 1.80                                     | 1.83  | 1.83  | 0.30                                   | 0.9                                       | 0.46  | 0.15                                    | 1.8  | 0.9  | 0.31                                   | 1.4  |
|                           |                      |  |   |   |  |   |   |   |  |  |  |      |
| 1.4                       | 0.23                 | 2.7                                      | 2.7   | 2.7   | 0.45                                   | 1.1                                       | 0.55  | 0.18                                    | 2.2  | 1.1  | 0.37                                   | 2.4  |
|                           |                      |  |   |   |  |   |   |   |  |  |  |      |
| 1.3                       | 0.21                 | 2.6                                      | 2.6   | 2.6   | 0.42                                   | 1.4                                       | 0.68  | 0.23                                    | 2.7  | 1.4  | 0.46                                   | 1.4  |
| 1.16                      | 0.19                 | 2.32                                     | 2.32  | 2.32  | 0.38                                   | 1.43                                      | 0.61  | 0.24                                    | 2.9  | 1.6  | 0.44                                   | 2.13 |
| 1.4                       | 0.24                 | 2.9                                      | 2.9   | 2.9   | 0.48                                   | 1.5                                       | 0.73  | 0.24                                    | 2.9  | 1.5  | 0.48                                   | 3.3  |
|                           |                      |  |   |   |  |   |   |   |  |  |  |      |
| 1.6                       | 0.27                 | 3.28                                     | 3.28  | 3.28  | 0.55                                   | 1.5                                       | 0.77  | 0.26                                    | 3.1  | 1.5  | 0.52                                   | 3.1  |
| 1.4                       | 0.24                 | 2.8                                      | 2.8   | 2.8   | 0.48                                   | 1.6                                       | 0.80  | 0.27                                    | 3.2  | 1.6  | 0.54                                   | 2.4  |
| 1.6                       | 0.27                 | 3.3                                      | 3.3   | 3.3   | 0.54                                   | 1.7                                       | 0.84  | 0.28                                    | 3.4  | 1.7  | 0.56                                   | 3.3  |
| 2.2                       | 0.37                 | 4.4                                      | 4.4   | 4.4   | 0.74                                   | 2.8                                       | 1.41  | 0.47                                    | 5.7  | 2.8  | 0.94                                   | 6.3  |
|                           |                      |  |   |   |  |   |   |   |  |  |  |      |
| 3.17                      | 0.38                 | 3.17                                     | 3.17  | 3.17  | 0.59                                   | 3.0                                       | 1.51  | 0.50                                    | 6.0  | 3.0  | 1.04                                   | 5.2  |
| 1.6                       | 0.26                 | 2.8                                      | 2.8   | 2.8   | 0.48                                   | 2.6                                       | 1.30  | 0.44                                    | 5.2  | 2.6  | 0.88                                   | 5.2  |
| 2.1                       | 0.34                 | 4.10                                     | 4.10  | 4.10  | 0.68                                   | 3.1                                       | 1.55  | 0.52                                    | 6.2  | 3.1  | 1.04                                   | 6.2  |
| 2.1                       | 0.35                 | 4.20                                     | 4.20  | 4.20  | 0.70                                   | 3.1                                       | 1.55  | 0.52                                    | 6.2  | 3.1  | 1.04                                   | 6.2  |
| 2.15                      | 0.36                 | 4.3                                      | 4.3   | 4.3   | 0.72                                   | 3.9                                       | 1.95  | 0.65                                    | 7.9  | 3.9  | 1.30                                   | 7.9  |
| 2.5                       | 0.42                 | 5  | 5   | 5   | 0.83                                   | 4.9                                       | 2.47  | 0.82                                    | 9.9  | 4.9  | 1.65                                   | 9.9  |
| 3.6                       | 0.61                 | 7.27                                     | 7.27  | 7.27  | 1.24                                   | 5.4                                       | 2.69  | 0.90                                    | 10.8                                       | 5.4  | 1.80                                   | 10.0 |
| 6.5                       | 1.08                 | 13.00                                    | 13.00                                       | 13.00   | 1.68                                   | 10.8                                      | 5.40  | 1.90                                    | 21.6                                       | 10.8   | 3.60                                   | 21.6 |

equals row o      equals row o / 6      row o x 2      row p x 2      row q x 2      5000 / row k      row u / 2      row u / 6      row u x 2      row v x 2      row w x 2      5000 / row l

„double block 2 result“

\*If no data as did not make this far in test, double block 4 result, or 8x block 2 result

| Block 4 Wet Contamination                 |   |      | Block 4 Wet Contamination                            |   |  | Block 6 Extreme Contamination              |   |   | Block 6 Extreme Contamination                        |   |   |      |
|---|---|------|--|---|--|--|---|---|--|---|---|------|
| GRX 810 cassettes Wet Contamination Block | GRX 810 chain rings Wet Contamination Block |      | GRX 810 chains extrapolated to 10,000km <sup>2</sup> | GRX 810 cassettes extrapolated to 10,000km <sup>3</sup> | GRX 810 Chain rings extrapolated to 10,000km | GRX 810 chains Extreme contamination block | GRX 810 cassettes Extreme Contamination Block | GRX 810 chain rings Extreme Contamination Block | GRX 810 chains extrapolated to 10,000km <sup>4</sup> | GRX 810 cassettes extrapolated to 10,000km <sup>5</sup> | GRX 810 Chain rings extrapolated to 10,000km <sup>6</sup> |      |
| 0.2                                       | 0.07  |      | 0.8  | 0.4   |  | 0.14                                       | 0.98  | 0.49  | 0.16   | 1.96  | 0.98  | 0.32 |
| 0.20                                      | 0.07  |      | 0.8  | 0.4   |  | 0.14                                       | 0.4   | 0.21  | 0.07   | 0.9   | 0.4   | 0.1  |
| 0.96                                      | 0.32  |      | 3.8  | 1.9   |  | 0.64                                       | 3.8   | 1.92  | 0.64   | 7.7   | 3.8   | 1.3  |
| 0.8                                       | 0.26  |      | 3.2  | 1.6   |  | 0.52                                       | 1.6   | 0.8   | 0.26   | 3.2   | 1.6   | 0.52 |
| 0.81                                      | 0.27  |      | 3.2  | 1.6   |  | 0.54                                       | 1.8   | 0.92  | 0.31   | 3.7   | 1.8   | 0.6  |
| 0.92                                      | 0.31  |      | 3.7  | 1.8   |  | 0.62                                       | 3.3   | 1.65  | 0.55   | 6.6   | 3.3   | 1.1  |
| 1.83                                      | 0.61  |      | 7.4  | 3.7   |  | 1.22                                       | 7.4   | 3.70  | 1.22   | 14.8  | 7.4   | 2.4  |
| 0.77                                      | 0.26  |      | 3.1  | 1.5   |  | 0.52                                       | 1.6   | 0.80  | 0.27   | 3.2   | 1.6   | 0.5  |
| 1.065                                     | 0.355                                       |      |  | 2.13  |  | 0.355                                      | 4.26  | 2.13  | 0.71   |   | 4.26  | 1.42 |
| 0.20                                      | 0.07  | 4.26 | 0.8  | 0.4   |  | 0.14                                       | 3.9   | 1.95  | 0.65   | 7.8   | 3.9   | 1.3  |
| 1.13                                      | 0.38  |      | 4.5  | 2.3   |  | 0.75                                       | 4.5   | 2.26  | 0.75   | 9.0   | 4.5   | 1.5  |
| 1.54                                      | 0.51  | 6.16 |  | 3.08  |  | 1.02                                       | 6.16  | 3.08  | 1.03   | 12.3  | 6.16  | 2.06 |
| 1.05                                      | 0.35  |      | 4.2  | 2.1   |  | 0.70                                       | 4.2   | 2.1   | 0.7  | 8.4   | 4.2   | 1.4  |
| 0.69                                      | 0.23  |      | 2.7  | 1.4   |  | 0.46                                       | 2.8   | 1.38  | 0.46   | 5.5   | 2.8   | 0.9  |
| 1.22                                      | 0.41  |      | 4.9  | 2.4   |  | 0.81                                       | 4.9   | 2.44  | 0.81   | 9.8   | 4.9   | 1.6  |
| 0.72                                      | 0.24  |      | 2.9  | 1.4   |  | 0.48                                       | 3.0   | 1.50  | 0.50   | 6.0   | 3.0   | 1.0  |
| 1.09                                      | 0.36  |      | 4.4  | 2.18  |  | 0.72                                       | 4.37  | 2.18  | 0.73   | 8.7   | 4.37  | 1.46 |
| 1.63                                      | 0.54  |      | 6.5  | 3.3   |  | 1.08                                       | 6.5   | 3.25  | 1.08   | 13.0  | 6.5   | 2.2  |
| 1.56                                      | 0.52  |      | 6.3  | 3.1   |  | 1.04                                       | 6.3   | 3.13  | 1.04   | 12.5  | 6.3   | 2.1  |
| 1.19                                      | 0.40  |      | 4.5  | 2.4   |  | 0.89                                       | 4.7   | 2.37  | 0.78   | 9.4   | 4.7   | 1.6  |
| 1.67                                      | 0.56  |      | 6.7  | 3.3   |  | 1.11                                       | 6.7   | 3.33  | 1.11   | 13.3  | 6.7   | 2.2  |
| 3.13                                      | 1.04  |      | 12.5   | 6.3   |  | 2.08                                       | 12.5  | 6.25  | 2.08   | 25.0  | 12.5  | 4.2  |
| 2.58                                      | 0.88  |      | 10.4   | 5.2   |  | 1.73                                       | 10.4  | 5.19  | 1.73   | 20.7  | 10.4  | 3.5  |
| 2.64                                      | 0.86  |      | 10.4   | 5.2   |  | 1.72                                       | 10.4  | 5.20  | 1.72   | 20.8  | 10.6  | 3.4  |
| 3.10                                      | 1.04  |      | 12.4   | 6.2   |  | 2.08                                       | 12.4  | 6.20  | 2.08   | 24.8  | 12.4  | 4.2  |
| 3.9                                       | 1.3   | 15.8 |  | 7.9   |  | 2.6  | 15.8  | 7.9   | 2.6  | 31.6  | 15.8  | 5.2  |
| 4.95                                      | 1.65  |      | 19.8   | 9.9   |  | 3.30                                       | 19.8  | 9.90  | 3.30   | 39.6  | 19.8  | 6.6  |
| 5.00                                      | 1.67  |      | 20.0   | 10.0  |  | 3.33                                       | 20.0  | 10.00   | 3.33   | 40.0  | 20.0  | 6.7  |
| 10.80                                     | 3.60  |      | 43.2   | 21.6  |  | 7.20                                       |   |   |  |   |   |      |
| row AA / 2                                | row AA / 6                                  |      | row AA x 2   | row AB x 2  | row AC x 2                                   | 5000 / row m                               | row AG / 2                                    | row AG / 6                                      | row AG x 2   | row AH x 2  | Row AI x 2  |      |