Graphs from main raw data tables. To understand the lubricant test properly please go to "Data Raw revamp 1.1" worksheet and read test information at top of that page. This will explain all the normal reader will need to know about bot the test as well as understanding the data from the test. For those who want to go full nerdy there is also a link to the "Full Test Brief" which goes through the test in full detail - all intervals, check measures, contamiation, correlations etc - this can also be accessed from website main page instructions tab. In short however if not going to reference the recommended information - the ZFC test runs for thousands of KM's, on an actual bicycle drivetrain, and includes zero contamination blocks, dry contamination block, wet contamination, and an extreme contamination test block. Each test block is 1000km long. There are re lubrication points (varies depending on test block), but no cleaning maintenance. It is up to the lubricant to protect the chain from wear. A high rate of wear of hardened steel parts makes it less likely the lubricant is low friction and efficient - it simply flat out takes friction to wear hardened steel parts at a notable rate. Thus, the lower the amount of wear (shorter bars) = higher performance. If you wish to understand how the wear correlation is used in this test (it can have some limitations), please refer to this section in the "Full Test Brief".

Block 2 Results - Dry dust contamination. 1000km Block 2 test results multiplied by 5 to attain extrapolated wear over 5000km of cycling.
(7 x re lubrication points + 7 x contamination addition points in block 2 test block)
1.00 (100%) = 1 chain worn to rec
Dark Blue = Wet Lubricant
Green = Wax Drip Lubricant
Pink - Immersive Wax / Solid Wax
0
1
2
3
4
5
6
0.35
0.6
2.6
1.55
0.145
0.05
0.6
0.80
0.145
0.725
1.05
5.15
0.145
Immersive wax
Wax - Drip Lubricant
Wet - Drip Lubricant
Average All Lubricants tested
On Test - IM wax + Wax Drip (silca)
Average - Top 5 Immersive wax
Average - Top 5 Drip wax
Average - Top 5 Wet Drip
On Test - IM wax + Wax Drip (silca)
Average - Worst 5 - Immersive Wax
Average - Worst 5 Wax Drip
Average - Worst 5 Wet Drip

Block 3 Results - No contamination. 1000km Block 3 test results multiplied by 5 to attain extrapolated wear over 5000km of cycling.
(3 x re lubrication points in block 3 test block)
**Looking for reduction in wear vs Block 2 = Higher ability to clear contam
Dark Blue = Wet Lubricant
Green = Wax Drip Lubricant
Pink - Immersive Wax / Solid Wax
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
0.20
0.4
2.35
1.35
0.145
0.00
0.05
0.85
0.145
0.4
0.95
4.5
0.145
Immersive wax
Wax - Drip Lubricant
Wet - Drip Lubricant
Average All Lubricants tested
On Test - IM wax + Wax Drip (silca)
Average - Top 5 Immersive wax
Average - Top 5 Drip wax
Average - Top 5 Wet Drip
On Test - IM wax + Wax Drip (silca)
Average - Worst 5 - Immersive Wax
Average - Worst 5 Wax Drip
Average - Worst 5 Wet Drip
On Test - IM wax + Wax Drip (silca)

Block 4 Results - Wet contamination. 1000km Block 4 test results multiplied by 5 to attain extrapolated wear over 5000km of cycling.
(7 x re lubrication points+ 7 x contamination addition points in block 4 test block)
1.00 (100%) = 1 chain worn to recommend
Dark Blue = Wet Lubricant
Green = Wax Drip Lubricant
Pink - Immersive Wax / Solid Wax
0
1
2
3
4
5
6
7
8
1.2
2.3
4.05
2.95
0.73
0.40
1.65
1.90
0.73
2.3
3.1
7.1
0.73
Immersive wax
Wax - Drip Lubricant
Wet - Drip Lubricant
Average All Lubricants tested
On Test - IM wax + Wax Drip (silca)
Average - Top 5 Immersive wax
Average - Top 5 Drip wax
Average - Top 5 Wet Drip
On Test - IM wax + Wax Drip (silca)
Average - Worst 5 - Immersive Wax
Average - Worst 5 Wax Drip
Average - Worst 5 Wet Drip
On Test - IM wax + Wax Drip (silca)

Block 5 Results - No Contamination. 1000km Block 5 test results multiplied by 5 to attain extrapolated wear over 5000km of cycling.
*Many drip lubricants data is extrapolated data, refer to data table
(3 x re lubrication points in block 5 test block)
**Looki
Dark Blue = Wet lubricant
Green = Wax Drip Lubricant
Pink - Immersive Wax / Solid Wax
0.25
1.6
2.5
1.75
0.245
0.05
0.95
0.95
0.245
0.5
2.4
4.55
0.245
Immersive wax
Wax - Drip Lubricant
Wet - Drip Lubricant
Average All Lubricants tested
On Test - IM wax + Wax Drip (silca)
Average - Top 5 Immersive wax
Average - Top 5 Drip wax
Average - Top 5 Wet Drip
On Test - IM wax + Wax Drip (silca)
Average - Worst 5 - Immersive Wax
Average - Worst 5 Wax Drip
Average - Worst 5 Wet Drip
On Test - IM wax + Wax Drip (silca)

Block 6 Results - No Contamination. 1000km Block 6 test results multiplied by 5 to attain extrapolated wear over 5000km of cycling.
*Many lubricants data is extrapolated data, refer to data table
(7 x re lubrication points and 14 x contamination points at d
Dark Blue = Wet lubricant
Green = Wax Drip Lubricant
Pink - Immersive Wax / Solid Wax
1.9
2.45
6
4.2
1.7
0.90
1.75
3.00
1.7
2.4
3.4
10.65
1.7
Immersive wax
Wax - Drip Lubricant
Wet - Drip Lubricant
Average All Lubricants tested
On Test - IM wax + Wax Drip (silca)
Average - Top 5 Immersive wax
Average - Top 5 Drip wax
Average - Top 5 Wet Drip
On Test - IM wax + Wax Drip (silca)
Average - Worst 5 - Immersive Wax
Average - Worst 5 Wax Drip
Average - Worst 5 Wet Drip
On Test - IM wax + Wax Drip (silca)