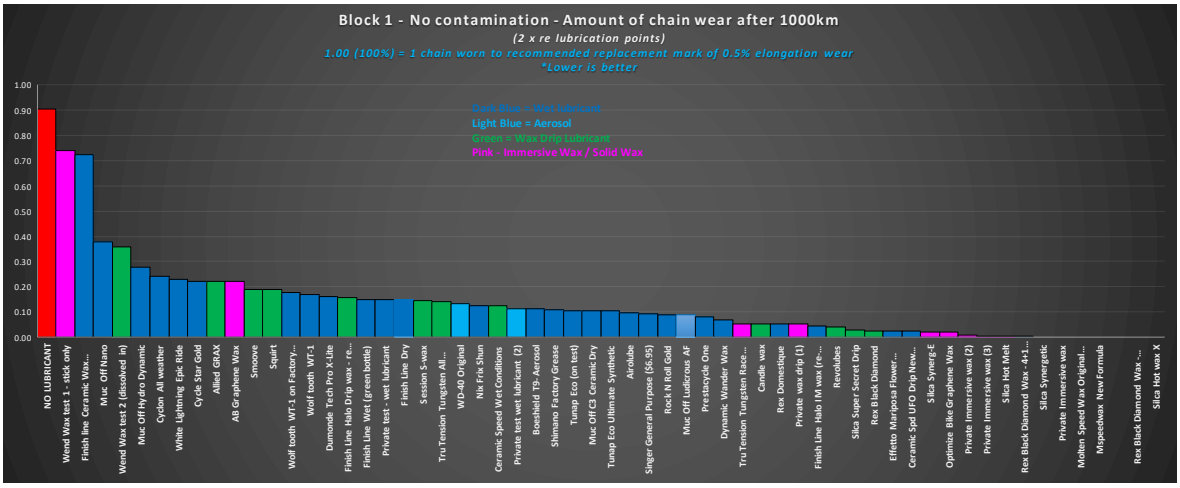
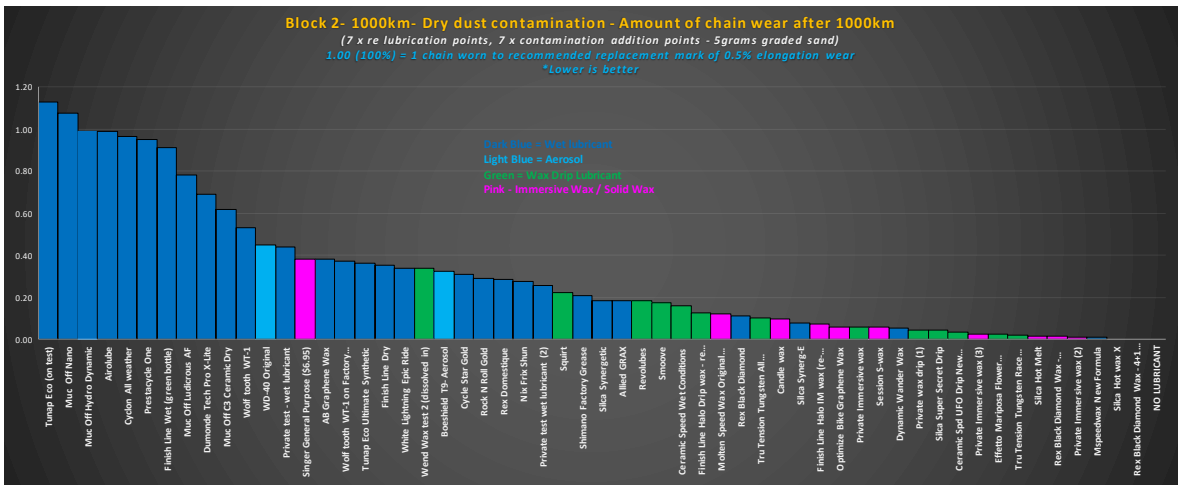
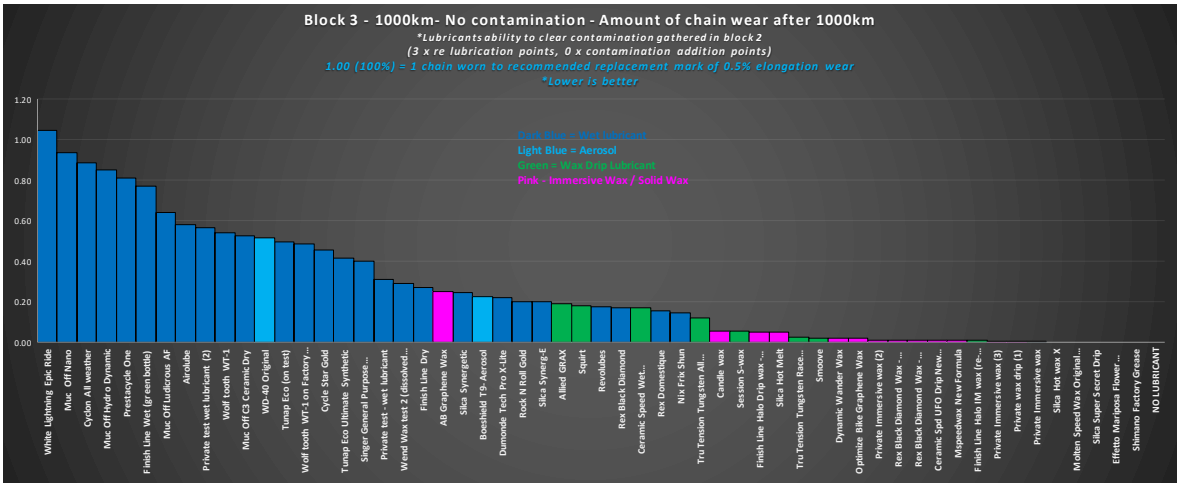
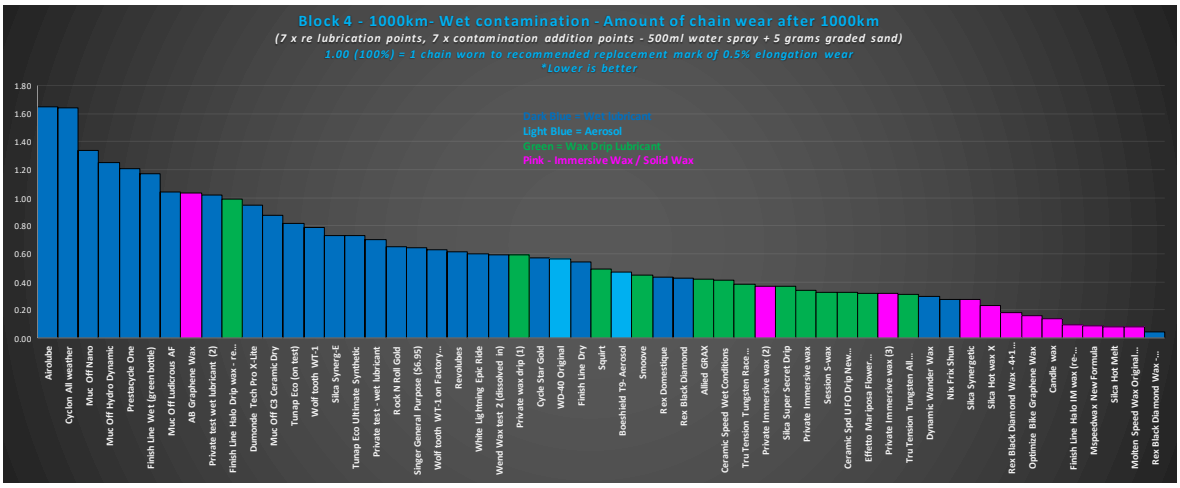
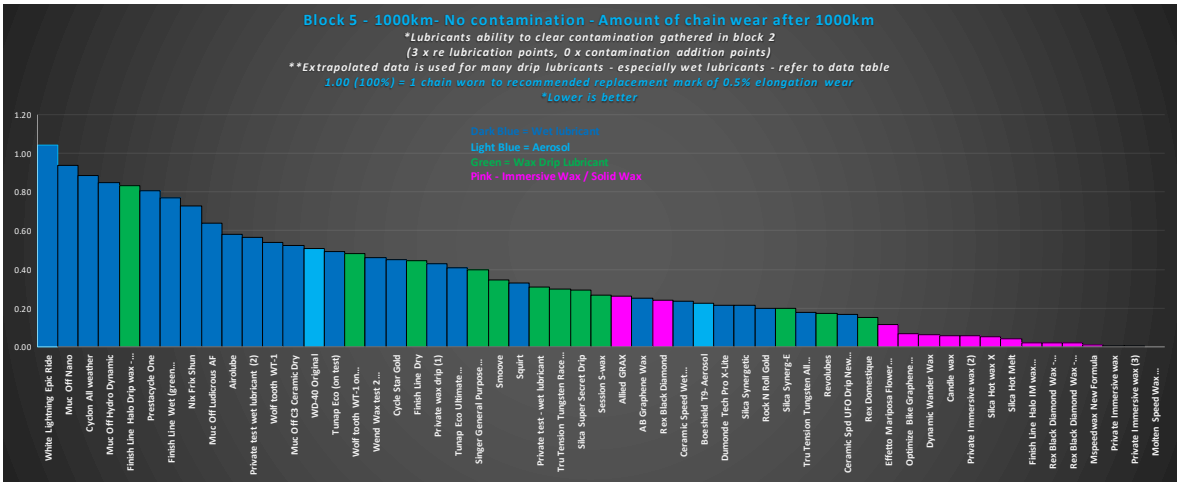
Graphs from main raw data tables. To understand the lubricant test properly please go to "Data Raw revamp 1.1" worksheet and read test information at top of that page. This will explain all the normal reader will need to know about bot the test as well as understanding the data from the test. For those 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".

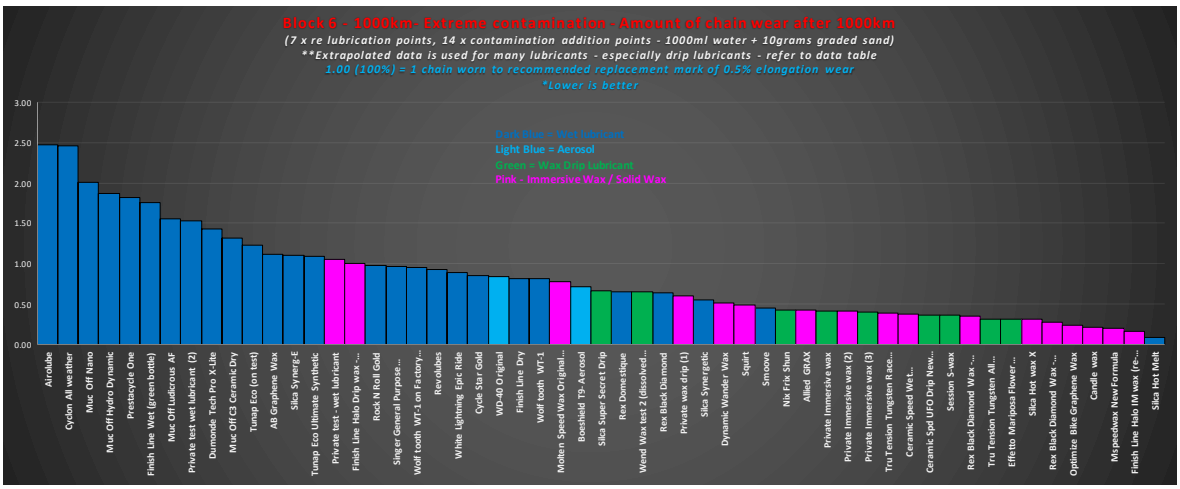







Block 4 - 1000km- Wet contamination - Amount of chain wear after 1000km
(7 x re lubrication points, 7 x contamination addition points - 500ml water spray + 5 grams graded sand)
1.00 (100%) = 1 chain worn to recommended replacement mark of 0.5% elongation wear
*Lower is better
Dark Blue = Wet lubricant
Light Blue = Aerosol
Green = Wax Drip Lubricant
Pink - Immersive Wax / Solid Wax
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
Airolube
Cyclon All weather
Muc Off Nano
Muc Off Hydro Dynamic
Prestacycle One
Finish Line Wet (green bottle)
Muc Off Ludicrous AF
AB Graphene Wax
Private test wet lubricant (2)
Finish Line Halo Drip wax - re...
Dumonde Tech Pro X-Lite
Muc Off C3 Ceramic Dry
Tunap Eco (on test)
Wolf tooth WT-1
Silca Synerg'E
Tunap Eco Ultimate Synthetic
Private test - wet lubricant
Rock N Roll Gold
Singer General Purpose (56.93)
Wolf tooth WT-1 on Factory...
Revolubes
White Lightning Epic Ride
Wend Wax test 2 (dissolved in)
Private wax drip (1)
Cycle Star Gold
WD-40 Original
Finish Line Dry
Squirt
Boeshield T9- Aerosol
Smoove
Rex Domestique
Rex Black Diamond
Allied GRAX
Ceramic Speed Wet Conditions
TruTension Tungsten Race...
Private Immersive wax (2)
Silca Super Secret Drip
Private Immersive wax
Session S-wax
Ceramic Spd UFO Drip New...
Effetto Mariposa Flower...
Private Immersive wax (3)
TruTension Tungsten All...
Dynamic Wander Wax
Nix Frix Shun
Silca Synergetic
Silca Hot wax X
Rex Black Diamond Wax - 4+1...
Optimize Bike Graphene Wax
Candle wax
Finish Line Halo IM wax (re-...
Mspeedwax New Formula
Silca Hot Melt
Molten Speed Wax Original...
Rex Black Diamond Wax -...


Block 5 - 1000km- No contamination - Amount of chain wear after 1000km
*Lubricants ability to clear contamination gathered in block 2
(3 x re lubrication points, 0 x contamination addition points)
**Extrapolated data is used for many drip lubricants - especially wet lubricants - refer to data table
1.00 (100%) = 1 chain worn to recommended replacement mark of 0.5% elongation wear
*Lower is better
Dark Blue = Wet lubricant
Light Blue = Aerosol
Green = Wax Drip Lubricant
Pink - Immersive Wax / Solid Wax
1.20
1.00
0.80
0.60
0.40
0.20
0.00
White Lightning Epic Ride
Muc Off Nano
Cyclon All weather
Muc Off Hydro Dynamic
Finish Line Halo Drip wax -...
Prestacycle One
Finish Line Wet (green...
Nix Frix Shun
Muc Off Ludicrous AF
Airolube
Private test wet lubricant (2)
Wolf tooth WT-1
Muc Off C3 Ceramic Dry
WD-40 Original
Tunap Eco (on test)
Wolf tooth WT-1 on...
Wend Wax test 2...
Cycle Star Gold
Finish Line Dry
Private wax drip (1)
Tunap Eco Ultimate...
Singer General Purpose...
Smoove
Squirt
Private test - wet lubricant
TruTension Tungsten Race...
Silca Super Secret Drip
Session S-wax
Allied GRAX
AB Graphene Wax
Rex Black Diamond
Ceramic Speed Wet...
Boeshield T9- Aerosol
Dumonde Tech Pro X-Lite
Silca Synergetic
Rock N Roll Gold
Silca Synerg'E
TruTension Tungsten All...
Revolubes
Ceramic Spd UFO Drip New...
Rex Domestique
Effetto Mariposa Flower...
Optimize Bike Graphene ...
Dynamic Wander Wax
Candle wax
Private Immersive wax (2)
Silca Hot wax X
Silca Hot Melt
Finish Line Halo IM wax...
Rex Black Diamond Wax -...
Rex Black Diamond Wax -...
Mspeedwax New Formula
Private Immersive wax
Private Immersive wax (3)
Molten Speed Wax...


Block 6 - 1000km- Extreme contamination - Amount of chain wear after 1000km
(7 x re lubrication points, 14 x contamination addition points - 1000ml water + 10grams graded sand)
**Extrapolated data is used for many lubricants - especially drip lubricants - refer to data table
1.00 (100%) = 1 chain worn to recommended replacement mark of 0.5% elongation wear
*Lower is better
Dark Blue = Wet lubricant
Light Blue = Aerosol
Green = Wax Drip Lubricant
Pink - Immersive Wax / Solid Wax
3.00
2.50
2.00
1.50
1.00
0.50
0.00
Airolube
Cyclon All weather
Muc Off Nano
Muc Off Hydro Dynamic
Prestacycle One
Finish Line Wet (green bottle)
Muc Off Ludicrous AF
Private test wet lubricant (2)
Dumonde Tech Pro X-Lite
Muc Off C3 Ceramic Dry
Tunap Eco (on test)
AB Graphene Wax
Silca Synerg'E
Tunap Eco Ultimate Synthetic
Private test - wet lubricant
Finish Line Halo Drip wax -...
Rock N Roll Gold
Singer General Purpose...
Wolf tooth WT-1 on Factory...
Revolubes
White Lightning Epic Ride
Cycle Star Gold
WD-40 Original
Finish Line Dry
Wolf tooth WT-1
Molten Speed Wax Original...
Boeshield T9- Aerosol
Silca Super Secret Drip
Rex Domestique
Wend Wax test 2 (dissolved...
Rex Black Diamond
Private wax drip (1)
Silca Synergetic
Dynamic Wander Wax
Squirt
Smoove
Nix Frix Shun
Allied GRAX
Private Immersive wax
Private Immersive wax (2)
Private Immersive wax (3)
TruTension Tungsten Race...
Ceramic Speed Wet L...
Ceramic Spd UFO Drip New...
Session S-wax
Rex Black Diamond Wax -...
Tru Tension Tungsten All...
Effetto Mariposa Flower ...
Silca Hot wax X
Rex Black Diamond Wax -...
Optimize Bike Graphene Wax
Candle wax
Mspeedwax New Formula
Finish Line Halo IM wax (re-...
Silca Hot Melt