

Understanding Cost to run calculations.

led modelling, factoring lubricant cost, different components etc - however.

How to use this data?

heavily extrapolated data to fill.

Friction / wear test - CUMULATIVE WEAR - Main test protocol
WAX / Wax DRIP / DRIP - WET / GREASE
Number of chains worn to recommended replacement mark of 0.5%. 1.0 = 1 chain worn to 0.5% wear mark.

Number of chains worn to recommende	d replacement mark	c of 0.5%. 1.0 = 1 ch	ain worn to 0.5%	wear mark.			COST TO RU
•							Based on drivetrain parts repl
							replacement necessary after elongation wear necessitating
	Block 1 - No	Block 2 - Dry Offroad	Block 3 - No	Block 4 - Wet conditions		Block 6 - Harsh wet	chain. Refer to Cost to run ex
ricant	Contamination	conditions	Contamination	riding	Contamination	conditions riding	section.
llack Diamond Wax - 11+1 mix	0.00	0.01	0.02	0.07	0.09	0.45	\$ 44.5
edwax New Formula	0.00	0.01	0.02	0.11	0.12	0.32	\$ 59.50
ot Melt	0.00	0.02	0.07	0.15	0.19	0.27	\$ 95.0
n Speed Wax Original Formula	0.00	0.12	0.12	0.20	0.20	0.98	\$ 100.0
ck Diamond Wax - 4+1 Mix	0.00	0.00	0.01	0.20	0.21	0.49	\$ 107.0
Line Halo IM wax (*RE-Test Jan 25)	0.05	0.12	0.12	0.22	0.24	0.40	\$ 118.5
lot wax X	0.00	0.00	0.00	0.23	0.28	0.60	\$ 141.0
e Immersive wax (3)	0.01	0.03	0.03	0.35	0.38	0.76	\$ 190.5
le wax	0.05	0.15	0.20	0.34	0.40	0.78	\$ 201.0
e immersive wax (2)	0.01	0.02	0.03	0.40	0.45	0.87	\$ 225.0 \$ 230.0
Immersive wax	0.00	0.06	0.06	0.40	0.46 0.48	0.83	\$ 230.0 \$ 240.0
Mariposa Flower power wax ic Spd UFO Drip New Formula	0.02	0.05	0.05	0.37	0.48	0.80	\$ 240.0
uper Secret Drip New Formula	0.02	0.06	0.08	0.39	0.56	1.33	\$ 278.0
nsion Tungsten Race - (*D.A)	0.03	0.08	0.08	0.44	0.73	1.33	\$ 390.0
1 S-Wax	0.05	0.20	0.25	0.58	0.78	1.21	\$ 423.0
sion Tungsten All Weather	0.13	0.24	0.36	0.67	0.85	1.17	\$ 425.0
nergetic	0.00	0.18	0.43	0.70	0.92	1.47	\$ 458.5
ck Diamond	0.02	0.13	0.30	0.73	0.97	1.61	\$ 485.5
mestique	0.05	0.34	0.49	0.93	1.08	1.73	\$ 538.0
Speed Wet Conditions	0.12	0.28	0.45	0.86	1.10	1.52	\$ 548.5
wax drip (1)	0.05	0.10	0.10	0.69	1.12	1.72	\$ 560.5
e	0.19	0.37	0.39	0.87	1.18	1.64	\$ 590.0
bes	0.04	0.22	0.40	1.01	1.19	2.12	\$ 594.0
nerg-E	0.02	0.10	0.29	1.03	1.23	2.33	\$ 612.5
RAX	0.22	0.40	0.59	1.01	1.27	1.70	\$ 635.5
eld T9 - Aerosol	0.11	0.43	0.66	1.13	1.35	2.07	\$ 677.0
	0.19	0.39	0.61	1.09	1.41	1.90	\$ 702.5
coll Gold	0.09	0.38	0.58	1.22	1.43	2.40	\$ 714.5
hun	0.13	0.40	0.54	0.83	1.55	1.97	\$ 775.0
ine Dry	0.15	0.50	0.77	1.31	1.76	2.57	\$ 877.5
test - wet lubricant (1) general purpose (\$6.95)	0.15 0.09	0.59 0.47	0.90 0.87	1.60 1.52	1.91 1.92	2.96 2.88	\$ 954.0 \$ 959.0
general purpose (\$6.95) ar Gold	0.09	0.47	0.87	1.52	1.92 2.00	2.88	\$ 959.0 \$ 1,002.0
Ultimate Synthetic	0.22	0.53	0.98	1.61	2.00	3.11	\$ 1,002.0
Ultimate Synthetic	0.10	0.47	0.88	1.61	2.02	3.11	\$ 1,010.0
Wax test 2 (dissolved in)	0.16	0.69	0.98	0.40	2.02	2.71	\$ 1,029.5
phene Wax	0.22	0.60	0.85	1.89	2.14	3.17	\$ 1,068.5
oth wt-1 on Factory grease	0.18	0.55	1.03	1.66	2.15	3.09	\$ 1,073.0
ine Halo Drip wax (*Re-Test)	0.16	0.28	0.33	1.32	2.16	3.17	\$ 1,080.0
original	0.13	0.59	1.10	1.66	2.17	3.01	\$ 1,085.5
nde Tech Pro X-Lite	0.16	0.85	1.07	2.02	2.23	3.66	\$ 1,116.5
test wet lubricant (2)	0.11	0.37	0.93	1.95	2.51	4.03	\$ 1,254.0
ooth wt-1	0.17	0.70	1.24	2.03	2.57	3.38	\$ 1,284.0
f C3 Ceramic Dry	0.11	0.72	1.25	2.12	2.65	3.96	\$ 1,323.5
Eco	0.11	1.23	1.73	2.54	3.04	4.26	\$ 1,518.5
Lightning Epic Ride	0.23	0.57	1.61	2.01	3.25 3.77	4.15	\$ 1,625.0
ine Wet (green bottle)	0.15	1.06	1.83	3.00	3.77 3.85	5.53 5.67	\$ 1,885.0
f Ludicrous AF	0.09	0.90	1.83	3.03	3.85 3.90		\$ 1,927.0
e vela One	0.10	1.09	1.67	3.32	3.90 3.95	6.37 5.54	\$ 1,948.5
ycle One	0.08 0.28	1.03	0.01	2.99	3.95 4.21	5.54	\$ 1,974.0 \$ 2,103.5
Hydro Dynamic	0.28	1.21	2.09	3.73	4.21	7.07	\$ 2,305.0
All weather f Nano Lube	0.24	1.21	2.09	3.73	4.61 4.66	7.07 6.67	\$ 2,305.0
o Factory Grease	0.38	0.32	2.39 N/A	3.73 N/A	4.00 N/A	N/A	J 2,330.0
line Ceramic Wax (unable to extrapolate data)	0.11	0.32 N/A	N/A N/A	N/A N/A	N/A N/A	N/A	ł
Wax test 1 - stick only	0.74	N/A	N/A	N/A	N/A	N/A	i
BRICANT	0.90	N/A	N/A N/A	N/A	N/A	N/A	ł
	0.30		797	.,,,,,	.4/5	-,,,,	Ĭ
	_		1	1		1	1
	0.:	14 0.4	0.6	58 1.29	1.6	8 2.53	•
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about deal and Bookley Sabourate							•

Wear - Block by block (individual wear rate for each block)

Wear - Block by block (individual wear rate for each block) How to use this data? The table below shows the wear recorded for each individual test block. This enables you to drill down to what substant performs for your riding - is offroad? Frequent wet? And the property of the prop

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Number of chains worn to recommended replacement mark of 0.5% in EACH block. 1.0 = 1 chain worn to 0.5% wear mark
WAX (Wax DRIP / DRIP - WET / GREASE

WAX / WAX DIGIT / DIGIT WELL / GREASE			Block 2 - Dry Offroad						Block 6 - Harsh wet
			conditions - CHAINS			Block 4 - Wet conditions			
	Block 1 - 1000km- No	Block 2 - 1000km - Dry	WORN to 0.5% PER	Block 3 - No	Block 4 - Wet conditions	riding - Chains Worn to	Block 5 - No	Block 6 - Harsh wet	
Lubricant	Contamination	Offroad conditions	5000km	Contamination	riding		Contamination	conditions riding	
Silca Hot wax X	0.00	0.00	0.00	0.00	0.23	1.16	0.05	0.32	0.43
Mspeedwax New Formula	0.00	0.01	0.06	0.01	0.09	0.46	0.01	0.20	3.90
Rex Black Diamond Wax - 11+1 mix	0.00	0.01	0.07	0.01	0.05	0.23	0.02	0.36	0.80
Private Immersive wax	0.00	0.06	0.29	0.00	0.34	1.70	0.00	0.37	1.83
Molten Speed Wax Original Formula	0.00	0.12	0.60	0.00	0.08	0.40	0.00	0.78	1.87
Silca Synergetic	0.00	0.19	0.93	0.24	0.27	1.37	0.22	0.55	2.48
Rex Black Diamond Wax - 4+1 Mix	0.00	0.00	0.00	0.01	0.18	0.92	0.02	0.28	1.79
Silca Hot Melt	0.00	0.02	0.09	0.05	0.08	0.40	0.04	0.09	
Private Immersive wax (3)	0.01	0.02	0.12	0.00	0.32	1.59	0.00	0.37	1.40
Private Immersive wax (2)	0.01	0.01	0.06	0.01	0.37	1.85	0.06	0.42	0.99
Silca Synerg-E	0.02	0.08	0.39	0.20	0.73	3.67	0.20	1.10	1.87
Optimize Bike (on test april 2025)	0.02	0.06	0.29						1.87
Effetto Mariposa Flower power wax	0.02 0.02	0.02	0.12 0.17	0.00	0.32	1.60 1.62	0.11	0.32 0.37	1.60 2.77
Ceramic Spd UFO Drip New Formula Rex Black Diamond	0.02	0.03	0.17	0.01 0.17	0.32 0.43	2.13	0.17 0.24		
	0.02	0.11	0.56	0.17	0.43	1.85	0.24	0.64	1.95
Silca Super Secret Drip Revolubes	0.03	0.05	0.23	0.00	0.37	1.85 3.09	0.29	0.66	2.15
Finish Line Halo IM wax (re-test Jan 25)	0.05	0.18	0.36	0.17	0.02	0.47	0.02	0.16	1.83
Private wax drip (1)	0.05	0.05	0.23	0.00	0.59	2.96	0.43	0.60	1.60
Rex Domestique	0.05	0.05	1.43	0.00	0.59	2.95	0.43	0.66	4.49
Candle wax	0.05	0.10	0.48	0.06	0.14	0.71	0.06	0.37	2.09
Tru Tension Tungsten Race (D.A)	0.05	0.02	0.10	0.02	0.38	1.92	0.30	0.39	1.87
Prestacycle One	0.08	0.95	4.75	0.81	1.21	6.06	0.81	1.82	9.38
Rock N Roll Gold	0.09	0.29	1.45	0.20	0.65	3.25	0.20	0.98	4.62
Muc Off Ludicrous AF	0.09	0.78	3.90	0.64	1.04	5.21	0.64	1.56	8.79
Singer General Purpose (\$6.95)	0.09	0.38	1.92	0.40	0.64		0.40	0.97	6.13
Airolube	0.10	0.99	4.95	0.58	1.65	8.26	0.58	2.48	12.38
Tunap Eco Ultimate Synthetic	0.10	0.36	1.82	0.41	0.73	3.66	0.41	1.10	5.26
Tunap Eco Ultimate Synthetic	0.10	0.36	1.82	0.41	0.73	3.66	0.41	1.10	5.51
Muc Off C3 Ceramic Dry	0.11	0.62	3.09	0.52	0.88	4.39	0.52	1.32	5.18
Tunap Eco (on test)	0.11	1.13	5.63	0.49	0.82	4.09	0.49	1.23	
Shimano Factory Grease	0.11	0.21	1.04						4.08 2.99
Private test wet lubricant (2)	0.11	0.25	1.27	0.56	1.02	5.09	0.56	1.53	
Boeshield T9- Aerosol	0.11	0.32	1.62	0.22	0.47	2.37	0.22	0.71 0.37	4.05
Ceramic Speed Wet Conditions Nix Frix Shun	0.12 0.13	0.16 0.27	0.80 1.37	0.17 0.14	0.41 0.27	2.06 1.37	0.24 0.73	0.37	3.20 3.24
WO-40 Original	0.13	0.27	2.26	0.14	0.27	2.82	0.73	0.43	3.24
Tru Tension Tungsten All Weather	0.13	0.45	0.50	0.51	0.31	1.55	0.18	0.32	3.30
Session S-wax	0.14	0.16	0.29	0.05	0.33	1.63	0.27	0.37	1.60
Finish Line Dry	0.15	0.35	1.76	0.27	0.54	2.72	0.44	0.87	4.88
Private test - wet lubricant	0.15	0.44	2.20	0.31	0.70	3.51	0.31	1.05	6.59
Finish Line Wet (green bottle)	0.15	0.91	4.56	0.77	1.17	5.86	0.77	1.76	9.08
Finish Line Halo Drip wax - re test.	0.16	0.13	0.63	0.05	0.99	4.97	0.83	1.01	2.14
Dumonde Tech Pro X-Lite	0.16	0.69	3.45	0.22	0.95	4.75	0.22	1.43	7.81
Wolf tooth WT-1	0.17	0.53	2.65	0.54	0.79	3.95	0.54	0.81	7.63
Wolf tooth WT-1 on Factory Grease	0.18	0.37	1.86	0.48	0.63	3.16	0.48	0.95	4.05
Smoove	0.19	0.17	0.87	0.02	0.45	2.26	0.34	0.46	3.28
Squirt	0.19	0.22	1.10	0.18	0.49	2.45	0.33	0.50	4.28
Allied GRAX	0.22	0.18	0.92	0.19	0.42	2.10	0.26	0.43	2.29 5.48
AB Graphene Wax	0.22	0.38	1.92	0.25	1.04	5.18	0.25	1.04	5.48
Cycle Star Gold	0.22	0.31	1.55	0.45	0.57	2.85	0.45	0.86	4.74
White Lightning Epic Ride	0.23	0.34	1.69	1.04	0.60	2.99	1.04	0.90	
Cyclon All weather	0.24	0.96	4.82	0.88	1.64	8.20	0.88 0.85	2.46 1.88	10.04 12.30
Muc Off Hydro Dynamic	0.28	0.99	4.95	0.85	1.25 0.60	6.25		1.88 0.65	12.30 4.83
Wend Wax test 2 (dissolved in)	0.36	0.34	1.68	0.29		2.99	0.46		4.83
Muc Off Nano	0.38	1.08	5.39	0.93	1.34	6.69	0.93	2.01	
Finish line Ceramic Wax (unable to extrapolate data)	0.72 0.74								
Wend Wax test 1 - stick only NO LUBRICANT	0.74								5.05
NO LUBRICANT	0.90								5.05
Average All lubes	14.3%	42.2%		118.5%	164.3%	 	72852.4%	48.4%	+
*D.A = Re lube applications doubled		as test stopped before test	ion this block	115.5%	104.5%		/2852.4%	45.476	-
D.A - Ne lube applications udubled	neu – extrapolated data	as test stopped before test							

Wet lubricants Extrapolation update - Nov 2024 Average All Wet Block 1 - 10.8% Average All Wet Block 2 - % Extrapolation = +28.3%

Block 3. Average All wet Block 2 = 53.1% Average all wet Block 3 = 38.8% Extrapolation = -14.3%

Block 4 Average All wet block 2 = 53.1% Average all tested wet block 4 = 79.2 Extrapolation = + 26.1%

Block 6 - change to use a 1.5 multiplication on Block 4 Only one wet lubricant has been tested in block 6 - insufficient for data average extrapolation

Immersive wax (excluding Finish line halo Block S - use block 3 Block 6 - avg all tested = 37.4 - use this except for AB graphen wax - use block 4