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In 1983, Casson and Gordon showed that a fibered ribbon knot has monodromy that (when capped off) extends over a handlebody. Shortly afterwards, Bonahon gave an infinite collection of genus 2 fibered knots K_n , and analyzed the cobordism classification of their monodromies. As a consequence, he showed (via the Casson-Gordon result) that $K_m\# - K_n$ is ribbon if and only if $m = n$. We investigate whether these knots can be slice, as a test of the ‘slice implies ribbon’ conjecture, and show that $K_m\# - K_0$ is slice if and only if $m = 0$. (Received August 30, 2012)