Did Dilophosaurus really spit poison?

Probably not. Poison doesn’t fossilize, of course so there’s no way to prove that it didn’t, but there’s absolutely no evidence to suggest that it did, either.

There is a modern reptile that spits poison – the spitting cobra. The spitting cobra has a pair of hollow fangs with a hole on the forward edge. Poison flows through the tooth and then squirts out of the hole – straight into the eyes of an attacker! Dilophosaurus has solid, standard-issue theropod teeth that aren’t anything like the teeth of the spitting cobra.