VY CMa is a supermassive, late-type, oxygen-rich star surrounded by a dense envelope of dust and molecules. Radio observations have identified about 25 different molecular species (plus many isotopologues) in the vicinity of this star, but little is known about molecular features in the mid-IR wavelength range. In a recent (and ongoing) line survey, we investigated the region around 7 to 8 and 10 μm with the TEXES instrument at IRTF (Mauna Kea, Hawai‘i) and the EXES spectrograph aboard the SOFIA airborne telescope. Both instruments are high-resolution instruments with R=100,000. Preliminary results on the observed NH₃ and SiO spectra will be presented. Other observed spectral features will be discussed. With the decommissioning of SOFIA in September 2022, a high-resolution mid-IR telescope will no longer be available for frequency ranges blocked by the Earth’s atmosphere. However, for some applications, the space telescope JWST can be a very valuable tool for studying the envelope of VY CMa, even though it has only a resolution of R=3000. Possible synergies with the current mid-IR line survey and JWST will be discussed.