Leggett modes and vortex dynamics in time-reversal symmetry breaking multiband superconductors MIKHAIL SILAEV, EGOR BABAEV, The Royal Institute of Technology, Stockholm, Sweden — In the framework of quasiclassical kinetic theory we study the spectrum of collective excitations and vortex dynamics in multiband superconductors. We show that the existence of mixed phase-density modes in multiband superconductors with broken time-reversal symmetry generates a new contribution to the viscosity of magnetic flux flow. Near the time reversal symmetry breaking phase transition this new contribution dominates over the usual Tinkham and Bardeen-Stephen mechanisms and provides a peculiar temperature dependence of the vortex viscosity. The results could be relevant for three band superconductor $\text{Ba}_1-\chi\text{K}_\chi\text{Fe}_2\text{As}_2$.