Denis Potapov, Anna Skripka* (askripka@unm.edu) and Fedor Sukochev. Trace formulas for perturbations with resolvent differences in Schatten-von Neumann ideals. We obtain higher order trace formulas corresponding to perturbations such that the difference of the resolvents is in some Schatten-von Neumann ideal. This extends earlier results of Krein and Neidhardt obtained for trace class and Hilbert-Schmidt resolvent differences, respectively. (Received January 25, 2014)