$$\lambda(q,t,t+\zeta)\delta q(t+\xi)-\lambda(q,t-\xi,t)\delta q(t)=$$

$$=\int_0^1 \mathrm{d}\eta\frac{\partial}{\partial\eta}\left[\lambda(q,t+(\eta-1)\xi,t+\eta\xi)\delta q(t+\eta\xi)\right]$$

$$=\xi\int_0^1 \mathrm{d}\eta\frac{\partial}{\partial t}\left[\lambda(q,t+(\eta-1)\xi,t+\eta\xi)\delta q(t+\eta\xi)\right]$$