$\frac{1}{2}d(x_{k+1}, \mathcal{X}_{\hat{f}_{k+1}}^*)^2 \le \frac{(1 - \alpha\mu')^k}{\mu f} \frac{(L_f) d(x_0, \mathcal{X}_{f_0}^*)^2 - \eta^* - \eta_0}{\mu f} \quad 18mu + \frac{\alpha}{c\mu_f} \sum_{t=0}^k (1 - \alpha\mu')^{k-t} \hat{f}_k^* + \frac{\eta^* + \eta_0}{\mu f \mu' \alpha}.$