NOMENCLATURE (Continued)

V_1 . . . volume of compression chamber, in^3

V_2 . . . volume of fluid at atmospheric pressure that would create pressure P_g if compressed to volume V_1, in^3

$\overline{V}$ . . . . velocity vector representing velocity of fluid within bore of pressure pot, in/sec

F_1, F_2, F_3 radial, circumferential, and longitudinal body forces per unit mass, respectively, acting on fluid in bore of pressure pot, lb/slug

$\overline{\zeta}$ . . . . vorticity vector representing vorticity of fluid within bore of pressure pot, sec^{-1}

θ_1 . . . . time constant of pressure-time history observed inside compression chamber, msec

θ_2 . . . time constant of voltage-time history observed at terminals of oscilloscope, msec

μ_o . . . coefficient of viscostiy of fluid under atmospheric pressure, $lb\text{-}sec/in^2$

μ . . . . coefficient of viscosity of fluid under pressure P, $lb\text{-}sec/in^2$

v . . . . coefficient of kinematic viscosity of fluid, in^2/sec