TV-DV =
$$W \frac{dh}{dt} + \frac{d}{dt} \left(\frac{1}{2} \frac{W}{g} V^2 \right)$$

$$T = D$$

$$\frac{T}{W} = \frac{1}{2} \int V^{2} \left(\frac{1}{W/s} \right) k \frac{L^{2}}{(\frac{1}{2} \rho V^{2} S)^{2}} + \frac{1}{2} \int V^{2} \left(\frac{1}{W/s} \right) (D_{0})^{2}$$

$$\frac{T}{W} = \frac{1}{28}V^{2}\left(\frac{1}{W/s}\right)k\frac{m^{2}W^{2}}{\left(\frac{1}{2}pV^{2}\right)^{2}S^{2}} + \frac{1}{28}V^{2}\left(\frac{1}{W/s}\right)C_{0}$$

$$\frac{T}{W} = \frac{KN^2}{\frac{1}{2}gV^2} \left(\frac{W}{S}\right) + \frac{CD_0}{\left(\frac{W}{S}\right)} \frac{1}{2}gV^2 \qquad V = 0.9(295) = 265.5 \text{ m/s}$$

$$= 1.53 \qquad + 0.034 \qquad K = 0.21$$

$$= 0.034 \qquad CD = 0.01$$

$$V = 0.9(295) = 265.5 \text{ m/s}$$

 $S = 0.34 \text{ fg/m}^3$
 $K = 0.2.1$

$$C_{00} = 0.01$$

 $WK = 3500$

$$\frac{T}{W} = 1.56$$

CASE ii)
$$TV - DV = \frac{d}{dt} \left(\frac{1}{2} \frac{W}{g} V^2 \right) = \frac{1}{2} \frac{W}{g} 2V \frac{dV}{dt}$$

$$\overline{\overline{W}} = \frac{D}{W} + \frac{1}{9} \frac{dV}{dt}$$

$$\frac{T}{W} = \frac{k n^2}{\frac{1}{5} V^2} \left(\frac{W}{5} \right) + \frac{Co_0}{\left(\frac{W}{5} \right)} \frac{1}{2} g V^2 + \frac{1}{g} \frac{\left(V_{\text{sinul}} - V_{\text{initial}} \right)}{\Delta t}$$
from above (naw $N = 1$)