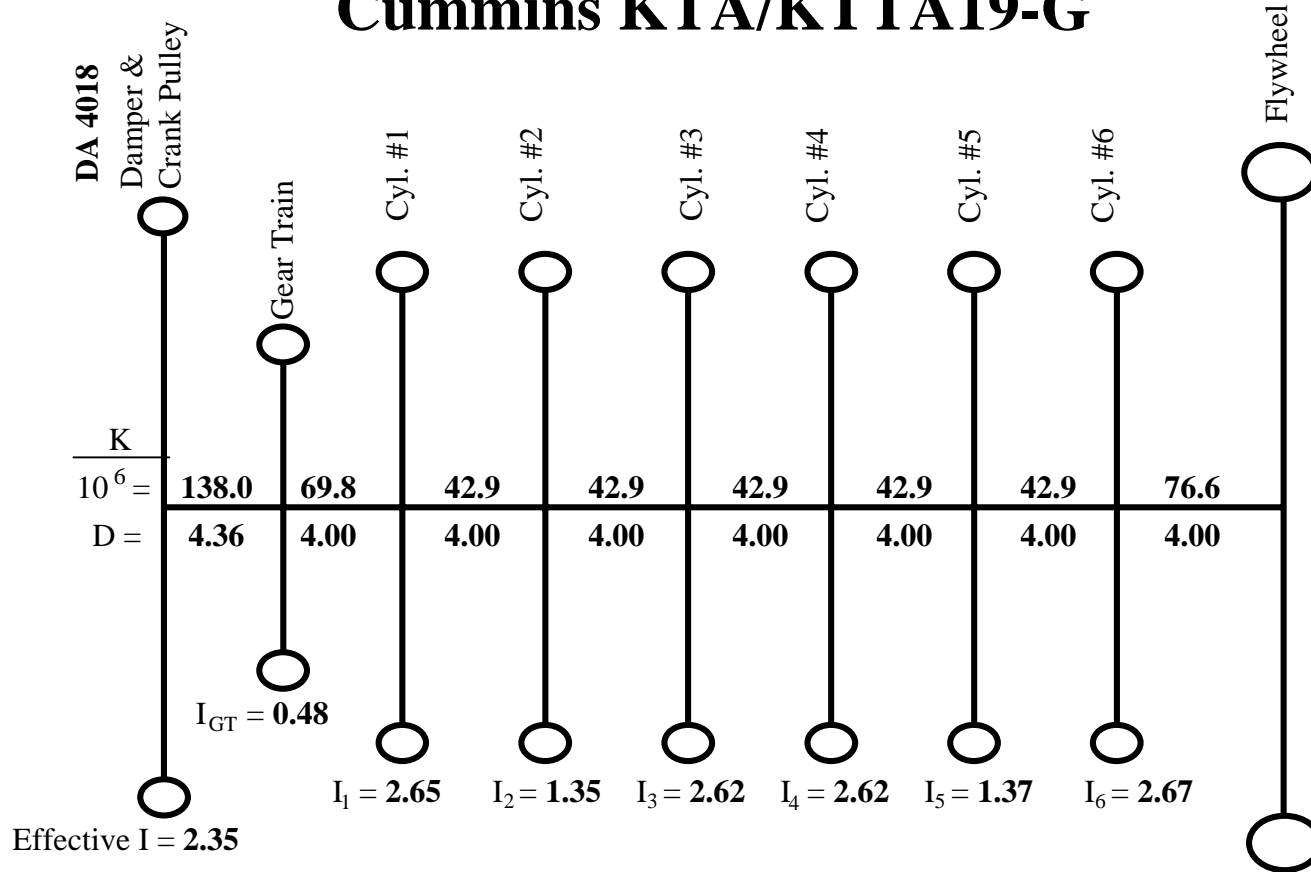


# Mass Elastic System

## Cummins KTA/KTTA19-G



Effective Inertia = Housing + Pulley + 1/2 Floating  
 Housing Inertia = **2.36**  
 Floating Inertia = **3.80**  
 Pulley Inertia = **0.61**  
 Structural damping = **0.10**  
 Viscous damping = **4000**

SAE 0-18: FW 4001:  $I_{FW} = 44.76$

SAE 0-14: FW 4006:  $I_{FW} = 55.70$

$I$  = Mass Moment of Inertia (in-lb-sec<sup>2</sup>)

$K$  = Stiffness (in-lb/radian)

$D$  = Minimum Shaft Diameter (inches)