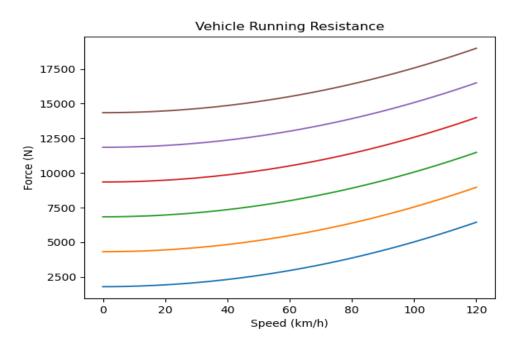
PERFORMANCE REPORT

Design Summary

Motor Power =
Motor Nom Torque =
Motor Peak Torque =
Motor RPM =

Gradeability =
Battery Power =
Battery Energy =
Final Gear Ratio =

Grafik Motor Running Resistance



Parameter Kendaraan

Lebar Kendaraan = Tinggi Kendaraan = Ca =

Af =

Kode Ban = Jari - jari Ban = Massa Kosong = Massa Isi = Massa Total =

Gear Box = Mech Eff = Axle = Final GR =

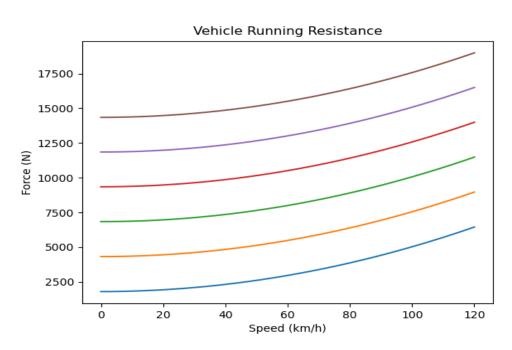
Dinamika Bergerak

Rolling Resistance = Drag Resistance = Massa Jenis Udara =

Kecepatan Angin = Percepatan Gravitasi = Acceleration Margin =

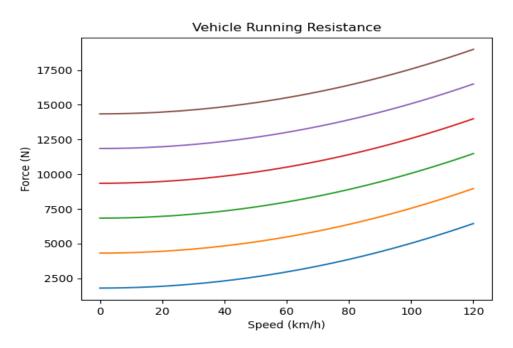
Grafik Vehicle Running Resistance

$$\begin{split} RR(N) &= R_{RR} + R_D + R_G \\ RR(N) &= C_{RR} \cdot m \cdot g \cdot \cos\theta + \frac{\rho}{2} \cdot A_f \cdot C_D \cdot (V_V + V_W)^2 + m \cdot g \cdot \sin\theta \end{split}$$



Grafik Wheel Running Resistance

$$\begin{split} RR(Nm) &= RR(N) \times r = (R_{RR} + R_D + R_G) \times r \\ RR(Nm) &= \left(C_{RR} \cdot m \cdot g \cdot \cos\theta + \frac{\rho}{2} \cdot A_f \cdot C_D \cdot (V_V + V_W)^2 + m \cdot g \cdot \sin\theta \right) \times r \end{split}$$



Grafik Motor Side Running Resistance

$$\begin{split} RR(Motor) &= \frac{RR(Nm)}{GR} = \frac{r}{GR} \times (R_{RR} + R_D + R_G) \\ RR(Motor) &= \frac{r}{GR} \times \left(C_{RR} \cdot m \cdot g \cdot \cos\theta + \frac{\rho}{2} \cdot A_f \cdot C_D \cdot (V_V + V_W)^2 + m \cdot g \cdot \sin\theta \right) \end{split}$$

