

Formulae:

$$a) \text{ Brake Power (BP)} = [2 \pi N T] / 60000 \quad \text{kw}$$

where,

$$\begin{aligned} N &= \text{Speed in rpm} \\ T &= \text{Torque in N-m} \\ &= W_{\text{net}} \times R_{\text{eff}} \\ W_{\text{net}} &= (W_1 - W_2) / 9.8 \end{aligned}$$

$$b) \text{ Fuel consumption (FC)} = [20 \times 10^{-3} \times \text{sp.gr.} \times 3600] / t \quad \text{kg / hr}$$

where,

$$\begin{aligned} t &= \text{time taken for 20 cc of fuel consumption} \\ \text{sp. gr.} &= \text{specific gravity of diesel} = 0.86 \end{aligned}$$

$$c) \text{ Specific fuel consumption (SFC)} = \text{FC} / \text{BP} \quad \text{kg / kw hr}$$

$$d) \text{ Heat input (HI)} = [\text{FC} \times \text{CV}] / 3600 \quad \text{kJ / s}$$

where,

$$\text{CV} = \text{Calorific value of diesel} = 40,500 \quad \text{kJ/kg}$$

$$e) \text{ Brake thermal efficiency, } \eta_b = [\text{BP} / \text{HI}] \times 100 \quad \%,$$

$$f) \text{ Mechanical efficiency, } \eta_{\text{mech}} = [\text{BP} / \text{IP}] \times 100 \quad \%,$$

where,

$$\begin{aligned} \text{BP} &= \text{Brake power} \quad \text{kw} \\ \text{IP} &= \text{Indicated power} \quad \text{kw} \\ &= \text{BP} + \text{FP} \\ \text{FP} &= \text{Frictional power} \quad \text{kw} \\ & \quad (\text{to be determined from "BP vs. FC" plot}) \end{aligned}$$

$$g) \text{ Indicated thermal efficiency, } \eta_i = [\text{IP} / \text{HI}] \times 100 \quad \%$$

Result:

The performance test was conducted on the given diesel engine and the following characteristic curves were drawn.

- Brake power vs. Specific fuel consumption
- Brake power vs. Mechanical efficiency
- Brake power vs. Brake thermal efficiency and
- Brake power vs. Indicated thermal efficiency.

Thermodynamics Lab Manual

David Collins (Ph. D.), Matthew Johll



Thermodynamics Lab Manual:

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