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4 In spark ignition engines, air and fuel are usually mixed prior to entry into the cylinder. Fuel-Air Mixing The ratio of mass flow of air to the mass flow of fuel must be held roughly constant at about 15 for proper combustion. Conventionally, a mechanical device known as a carburetor is used to mix fuel and air.

### **Internal Combustion Engines - iitg.ac.in**

3 Transmission Loss The brake power is always less than the indicated power because of frictional losses. (from piston to crankshaft via the connecting rod) Friction loss Pumping loss  $f_p \hat{=} ip \hat{=} f_{pb}$  Indicated power (ip), is the power actually developed in the cylinder.

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The Diesel cycle is a combustion process of a reciprocating internal combustion engine. In it, fuel is ignited by heat generated during the compression of air in the combustion chamber, into which fuel is then injected. This is in contrast to igniting the fuel-air mixture with a spark plug as in the Otto cycle (four-stroke/petrol) engine. Diesel engines are used in aircraft, automobiles, power ...

### **Diesel cycle - Wikipedia**

A working fluid is a pressurized gas or liquid that actuates a machine. Examples include steam in a steam engine, air in a hot air engine and hydraulic fluid in a hydraulic motor or hydraulic cylinder. More generally, in a thermodynamic system, the working fluid is a liquid or gas that absorbs or transmits energy

### **Working fluid - Wikipedia**

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Il ciclo Diesel Ã un ciclo termodinamico per motori a combustione interna dove, a differenza del ciclo Otto, l'accensione della miscela non avviene attraverso una candela bensÃ attraverso un procedimento di compressione. Esso comprende 4 fasi, di seguito elencate. L'idea di tale macchina termica fu di Rudolf Diesel che sviluppÃ² successivamente il motore Diesel.

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