

Difference between Petrol (S.I.) Engine and Diesel (C.I.) Engine

| Particular | Petrol Engine | Diesel Engine |
|---------------------------------|--|---|
| Fuel Used | Petrol | Diesel |
| Thermodynamic Cycle | It works on Otto Cycle | It works on Diesel Cycle |
| Cost of Fuel | Cost of fuel is Higher | Cost of fuel is Less |
| Method of Ignition | Spark Ignition (S.I.) method | Compression Ignition (C.I.) method |
| When Fuel Supplied | Fuel is supplied at Beginning of first stroke | Fuel is supplied at end of second (Compression) stroke |
| Compression Ratio | Compression Ratio is 6 to 10 | Compression Ratio is 14 to 20 |
| Charge in suction stroke | Mixture of air and petrol come inside the engine in first (suction) stroke | Only air come inside the engine in first (suction) stroke |
| Engine Speed | Speed of engine is High | Speed of engine is Less |
| Weight of engine | It is lighter in weight | It is heavier in weight |
| Initial Cost | Initial cost of petrol engine is less | Initial cost of petrol engine is High |
| Maintenance Cost | Maintenance cost of petrol engine is less | Maintenance cost of diesel engine is high |
| Starting of Engine | Easy to start | Difficult to start in cold weather. |