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power plant theoretically for the same cr si engine has higher f but diesel is not limited by knock therefore it can operate at higher cr and achieves higher f not throttled small pumping loss overall lean higher value of higher thermodynamic efficiency

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Aug 12 2019 web 22 mei 2019 the main differences between the actual and ideal diesel engine appear in the figure in reality the ideal cycle does not occur and there are many losses associated with each process for an actual cycle the shape of the pv diagram is similar to the ideal but the area work enclosed by the pv diagram is always less than the ideal value the

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the basic principles of diesel fuel systems are consistent regardless of the technology used to implement them in diesel engines fuel is injected during the compression stroke before the piston reaches top dead centre tdc only the air is compressed on the compression stroke which causes it to become hot enough to ignite

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