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Effects of biodiesel fuel obtained from *Salvia Macrosiphon* oil (ultrasonic-assisted) on performance and emissions of diesel engine

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Highlights

- Biodiesel produced from *Salvia Macrosiphon* (SM) oil to evaluate the CI engine parameters.
- High oxygen content of SM biodiesel resulted in significant overall improvements in the combustion reaction.
- CO and HC were reduced by up to 25% and 31.82% respectively in B20 compared to B0.
- Power and torque increased up to 18% and 15.8% respectively with blended fuels.
- Specific fuel consumption decreased by 4.6% respectively in B20 compared to neat B0.

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