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The Potential Effects of Alternative Fuels on the Lubricating Condition of Compression-ignition Engines

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ABSTRACT
The dielectric constant and the moisture value of the lubricating oil measured from an IC engine running with different alternative fuels on line show a clear difference from the baseline diesel. This demonstrates that alternative fuels will have a noticeable impact on engine lubrication. Further studies should be carried out on clarifying the influences mechanisms and corresponding resolutions.

Keywords: Alternative fuels, Lubricating oil, Moisture, Dielectric property.