

IS 13656 : 2019 Internal Combustion Engine Crankcase Oils for Automotive Application (Diesel and Gasoline) — Specification (Third Revision)

The standard addresses different classifications of crankcase oils, with distinct sections dedicated to diesel engine oils and petrol engine oils. It categorizes oils based on different performance level categories tailored to the needs of various engine types and operating conditions.

Initially published in 1993, IS 13656 consolidated previous standards for automotive lubricants. It was revised in 2002 and 2014 to incorporate advancements in lubricant technology and updated international performance levels. The 2019 revision introduces additional classifications like EDL8 to EDL12 for diesel and EPL5 to EPL8 for gasoline engines to address newer emission standards and higher performance demands. It also removes the need for specific qualification approvals, as it is not relevant in the current scenario.

This standard prescribes the requirements and methods of sampling and test for the various types of internal combustion engine lubricating oils for use in diesel engines and gasoline engines used in passenger and commercial vehicles including off-highway equipment. It specifies requirements for engine performance tests and stipulates various physico-chemical properties including viscosity, along with their respective testing methods across different engine oil categories to ensure engine compatibility and reliability. Furthermore, the standard recommends suitable packing for the material and prescribes specific requirements for appropriate marking.