



Standard Test Method for Evaluation of Automotive Engine Oils for Inhibition of Deposit Formation and Wear in a Spark-Ignition Internal Combustion Engine Fueled with Gasoline and Operated Under Low-Temperature, Light-Duty Conditions¹

This standard is issued under the fixed designation D 5302; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This test method is commonly referred to as the Sequence VE test² and has been correlated with vehicles used in stop-and-go service prior to 1988, particularly with regard to sludge and varnish formation and valve train wear.³ It is one of the test methods required to evaluate oils intended to satisfy the API SJ performance category.

1.2 The values stated in either inch-pound units or SI units are to be regarded separately as the standard. Within the text, the SI units are shown in parentheses when combined with inch-pound units. Some of the figures and forms have identical numerical designations, but with the letter *M* following the numerical designation: these are alternative figures and forms that contain SI units.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.* Specific precautionary statements are given in 7.7, 7.8.9.6, 7.8.13, 7.10.2, 7.10.3.2(c), 8.3.4.2, 8.4.4.3, 8.4.5.2, 9.3.4.4, 9.6.1.2, 12.1.1.5, 12.1.4.5, 12.2.1, 12.2.1.5, Fig. A3.6, and Annex A8.

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² Until the next revision of this test method, the ASTM Test Monitoring Center will update changes in the test method by means of information letters. Information letters may be obtained from the ASTM Test Monitoring Center, 6555 Penn Avenue, Pittsburgh, PA 15206-4489. Attention: Administrator. This edition incorporates revisions in all Information Letters through No. 99-3.

³ ASTM Research Report RR:D02:1226. Sequence VE Report to the Subcommittee D02.B Oil Classification Panel, contains the field-laboratory correlation information and the initial laboratory test precision data.