



Standard Test Method for Evaluation of Automotive Engine Oils for Inhibition of Rusting (Sequence IID)¹

This standard is issued under the fixed designation D 5844; 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 covers a laboratory engine test procedure, utilizing a 1977 350 in.³ displacement (5.7 L) Oldsmobile V-8 engine. The procedure, using leaded gasoline, evaluates the rust inhibition characteristics of engine oils. The test method was designed to relate particularly to short-trip service under typical winter conditions in the upper midwestern United States. The procedure has been correlated with vehicles, using leaded gasoline, in that type of service and prior to 1978,² particularly with regard to rusting. It is one of the test methods required to evaluate oils intended to satisfy the API SJ category.³

1.2 Information Letters are published occasionally by the ASTM Test Monitoring Center⁴ (see Appendix X1) to update the test method. Copies of these letters can be obtained by writing the Center.

1.3 The method may not be applicable for the evaluation of engine oils if unleaded gasoline is used.

1.4 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.5 *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.* See Note 1, Note 2, Note 3, Note 6, Note 7, Note 8, Note 9, Note 10, Note 11, Note 14, and Note 15.

¹ This test method is under the jurisdiction of ASTM Committee D-2 on Petroleum Products and Lubricants and is the direct responsibility of Subcommittee D02.B0.01 on Passenger Car Engine Oils.

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² Originally published as D 5844 – 95. Last previous edition D 5844 – 97.

³ Available from ASTM in Special Technical Publication (STP) 3151 (Part 1). Also available from the Society of Automotive Engineers (SAE) as Technical Paper No. 780931. The SAE address is 400 Commonwealth Drive, Warrendale, PA 15096.

⁴ Information available from the American Petroleum Institute (API) in its publication API1509 Engine Oil Licensing and Certification System. The API address is 1220 L Street, NW, Washington, DC 20005.

⁵ 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; these can be obtained from the ASTM Test Monitoring Center, 6555 Penn Ave., Pittsburgh, PA 15206-4489. Attention: Administrator. This edition incorporates revisions in all Information Letters through No. 97–1.

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