

GL-5 Task Force Update
to
SAE Technical Committee 3

April 17, 2007

GL-5 Task Force Update

- ASTM Section D02.B0.03 formed a Task Force for the purpose of updating API Category GL-5 and writing it in the form of an ASTM Standard
- The purpose behind this activity is to identify and address any deficiencies of the existing document, and publish it in a format that will make it readily accessible to all interested parties
- The updated document is currently being reviewed by an ASTM Facilitator, and is expected to be forwarded to ASTM for balloting in the near future

GL-5 Task Force Update

Issue / Concern	Resolution
It may be difficult to locate the performance requirements for API Category GL-5	These performance requirements will be available in the form of an ASTM Standard, which is readily available on a worldwide basis
No mechanism is in place to insure that API Category GL-5 will be reviewed and updated on a routine basis - The most recent update appears to have been in 1987	ASTM Standards are reviewed and updated not less than once every five years
API Category GL-5 references test procedures which are no longer available	The updated document references the L-33-1 test in place of the L-33 test, and the L-60-1 test in place of the L-60 test

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Issue / Concern	Resolution
API Category GL-5 does not require that testing be conducted in calibrated test stands	The updated document references ASTM Standard Test Methods which require that testing be conducted in calibrated test stands
API Category GL-5 does not require that (end-of-test) hardware be evaluated by a calibrated test rater	The updated document requires the use of ASTM Standard Test Methods which require that end-of-test ratings be conducted by a calibrated test rater
The L-37 performance requirements in API Category GL-5 are vague. The pass/fail criteria is identified as “no tooth disturbance such as rippling, ridging, ...”	The updated document specifies ASTM merit rating values and uses the same pass/fail criteria as the SAE J2360 Standard

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Issue / Concern	Resolution
API Category GL-5 suggests/indicates that SAE 75W-xx grade lubricants need only be evaluated in the Canadian version of the L-37 and L-42 tests	The updated document requires that SAE 75W-xx grade lubricants be evaluated in both the Standard and Canadian versions of the L-37 and L-42 tests
API Category GL-5 was published prior to the most recent revision of SAE J306, and does not clearly identify performance test requirements for SAE 70W-xx, SAE xxW-110, and SAE xxW-190 grade lubricants	The updated document clearly identifies performance test requirements for all lubricants defined under the most recent version of SAE J306
The rust test (L-33) performance requirements shown in API Category GL-5 are no longer appropriate	The updated document requires the use of the L-33-1 test and identifies a minimum ASTM merit rating as the pass/fail criteria