

## Benefits of a Merit System

- More cost effective testing
- Consistent with reducing the time between ASTM acceptance and first date of API licensing
- Allows test developer to weight individual parameters
- Adds an incentive for improved performance
- Flexibility in setting up system
- Easier to gain consensus on limits

- Testing is more cost effective as some accommodation has been incorporated into the merit system for the precision of the test. This accommodation for precision is done on a parameter by parameter basis. A borderline fail under the fixed limit system, could be acceptable under a merit system and thus eliminate additional testing.
- To the extent that repeat testing is eliminated, this will help speed up approval programs and reduce stand availability constraints.
- Key performance parameters can be heavily weighted vs. less critical, but nonetheless important parameters.
- To enable a passing merit to be achieved, formulators have an incentive to improve performance (merits) in key performance areas to ensure an overall pass if another parameter is a borderline fail.
- The system developers are not looking at simply “limits” they can set maximums, minimums, weighting factors etc.
- The added flexibility of a merit system should help in gaining consensus

## Motion

To accept the proposed “Mack T-10 Merit System<sup>1</sup>” to evaluate oils against the API CI-4 performance category. A minimum merit of 1000 would be required.