



A Program of ASTM International

Test Monitoring Center

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MEMORANDUM: 15-005

DATE: March 10, 2015

TO: D02.B0.07 D5800 Mailing List

FROM: Tom Schofield *Thomas M. Schofield*

SUBJECT: D5800 Technical Update – **Mandatory Daily QC Check Sample, Effective May 1, 2015**

In a teleconference vote on February 19, 2015, the ASTM D02.B0.07 Volatility Surveillance Panel approved the mandatory use of a specific daily quality control (QC) check sample to fulfill the D5800 test method reference fluid requirements for Procedure B (test method sections 17.2 and 20, as applicable to the reference fluid), and for Procedure C (section 28 and section 29, note 19, as applicable to the reference fluid). For TMC monitored instruments only, the panel mandates the use of TMC reference fluid VOLD14 for this purpose with the following performance specifications, as established by an industry round robin conducted by TMC participating labs:

Oil Code	Parameter	n	Mean	sR	95% Acceptance Limits*	
					Lower	Upper
VOLD14	mass % evaporation loss	33	12.99	0.62	11.8	14.2

*95% Acceptance Limits = Mean \pm (1.96 sR)

By panel approval or intent, the following additional conditions apply:

1. The VOLD14 reference fluid must be used to fulfill the test method requirement of daily confirmation of instrument performance on all TMC calibrated instruments.
 - a. The results of the most recent daily QC check must be included with test reports to the TMC under the *Daily Quality Control Sample* section of the report.
 - b. The daily QC check sample results obtained on days that have no TMC blind calibration runs are not required to be reported to the TMC, though a voluntary data entry application will be made available through the TMC's web page. Labs are encouraged to use this application to disseminate their daily QC reference fluid results with other TMC participants.

2. The VOLD14 reference fluid will be sold and distributed by the TMC, but only to labs fully participating in the TMC's D5800 monitoring program, at least until a usage rate can be established to estimate inventory life.
 - a. In keeping with the TMC's published Reference Oils Policies, this reference fluid is NOT to be analyzed beyond what is required in the D5800 test method without prior permission from the TMC.
 - b. This reference fluid is not to be redistributed or re-sold beyond the initial party that purchases the fluid from the TMC. It is solely for internal use by the participating lab.

3. The VOLD14 reference fluid performance specifications will be re-evaluated by the panel every 15 reported operationally valid TMC calibration runs until the panel decides otherwise. Target performance or acceptance limits may be adjusted at the panel's discretion and approval.

At the same time, the panel will evaluate the control-status of the D5800 test method.

Reference fluid pricing and available volumes will be established by the TMC.

While not formally approved by the panel, the panel did agree that the use of VOLD14 as a daily QC check sample will be mandatory, so an effective date is needed. **Effective May 1, 2015, the use of VOLD14 as a daily QC check sample will become mandatory on all TMC calibrated D5800 instruments.** This should allow ample time for labs to order and receive the reference fluid and run preliminary in-house screening tests on the fluid, if needed.

TMS/tms

c: <ftp://ftp.astmtmc.cmu.edu/docs/bench/D5800/memos/mem15-005.pdf>

Distribution: Email