

Mike Kasimirsky

From: Gil Reinhard Intertek [gil.reinhard@intertek.com]
Sent: Monday, April 22, 2013 11:28 PM
To: (u.boecker@isp-institute.com); Angelina Chan; Becky Grinfield; Birke, Mike; Clayton Knight; Gregg Miiler (gmiiller@savantgroup.com); Hunter, Cheyanne; James.Gutzwiller@Infineum.com; Jason Bowden; Joe Franklin Intertek; Kevin Rettmann Intertek; McFarland, YongLi Q.; 'Michael Steven'; Mike Kasimirsky; Pat Fetterman (Glen.Fetterman@Infineum.com); Prause, Steven; Samina Azad Savant (sazad@savantgroup.com); shawn.whitacre@cummins.com; tselby@savantgroup.com; 'Zack Bishop'
Subject: Minutes to Teleconference of April 2, 2013
Importance: High
Attachments: Kcoupondata-screened (7).pdf

The purpose of the meeting is for approval of the K coupons for HTCBT. All members were emailed the collected data from testing the Reference oils 44-3 and 1005-3. Each current 4 test labs were issued 6 K coupon to each to test 3 runs on each reference. The panels members reviewed the data and were to vote to start testing candidates on K coupons.

The members at the teleconference were as follows: Zach Bishop of TEI, Samina Azad of Savant, Mike Kasimisky of TMC, YongLi McFarland of SWRI, Becky Grinfield also of SWRI, Angelina Chan of Lubrizol, Udo Boeker of ISP, Kevin Rettmann if Intertek, ans also Gil Reinhard of Intertek.

Addressing the data generated, discussion was centered around the fact that 10 of 27 tests were out of limits for one of the 2 reference oils. With this in mind Udo Boeker suggested that if the 30 test re-examination of reference 44-3 as the panel agreed to in January when 44-3 was accepted as a replacement for 44-2. With this in mind the acceptance of the K coupons was brought to a motion by Udo Boeker and second to the motion was Zack Bishop.

Voting was in favor of accepting the use of the K coupons by the voting member of each group with Mike Kasimirsky voting to abstain from the vote.

The next meeting will cover the acceptance of K coupons for D5968 CBT and discussion of the new limits generated for examining the tests for 44-3 on K coupons.

Please send me an email for any corrections to the minutes before they finalized.

Thanks

Gil Reinhard

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data

| LAB | BATH | IND | VAL | EOTDATE | EOTTIME | COM1 | CUC | CUCti | CUCyi | PBC | PBCyi | CU-X | CUCSDEV | CUCBAND | PB-X | PBCSDEV | PBCBAND |
|-----|------|--------|-----|----------|---------|------|-------|-------------|--------------|------|--------------|--------|---------|---------------|------|---------|--------------|
| G | 1 | 1005-3 | NI | 20130222 | 21:00 | | 9.0 | 2.197224577 | 1.952756841 | 16.6 | -0.23943662 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| G | 1 | 1005-3 | MI | 20130222 | 21:00 | CUCS | 9.1 | 2.208274414 | 2.014350131 | 16.7 | -0.225352113 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| G | 1 | 1005-3 | NI | 20130222 | 21:00 | | 8.9 | 2.186051277 | 1.890475344 | 22.5 | 0.591549296 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| G | 2 | 44-2 | MI | 20130219 | 21:00 | CUCM | 80.2 | 4.384523515 | -3.678847184 | 40.6 | -0.297297297 | 4.8808 | 0.1349 | 101.1 - 171.6 | 43.9 | 11.1 | 22.1 - 65.7 |
| G | 2 | 44-2 | MI | 20130219 | 21:00 | CUCM | 84.4 | 4.435567402 | -3.300464036 | 37.5 | -0.576576577 | 4.8808 | 0.1349 | 101.1 - 171.6 | 43.9 | 11.1 | 22.1 - 65.7 |
| G | 2 | 44-2 | MI | 20130219 | 21:00 | CUCM | 93.6 | 4.539030383 | -2.533503458 | 35.9 | -0.720720721 | 4.8808 | 0.1349 | 101.1 - 171.6 | 43.9 | 11.1 | 22.1 - 65.7 |
| G | 1 | 44-3 | NI | 20130322 | 20:00 | | 149.9 | 5.009968405 | 1.41512374 | 49.0 | 0.776119403 | 4.8052 | 0.1447 | 91.9 to 162.3 | 43.8 | 6.7 | 30.6 to 57.0 |
| G | 1 | 44-3 | NI | 20130322 | 20:00 | | 128.3 | 4.854371272 | 0.339815284 | 45.6 | 0.268656716 | 4.8052 | 0.1447 | 91.9 to 162.3 | 43.8 | 6.7 | 30.6 to 57.0 |
| G | 1 | 44-3 | NI | 20130322 | 20:00 | | 140.1 | 4.942356453 | 0.94786768 | 46.3 | 0.373134328 | 4.8052 | 0.1447 | 91.9 to 162.3 | 43.8 | 6.7 | 30.6 to 57.0 |
| I | 5 | 1005-3 | MI | 20130312 | 10:00 | PBCM | 5 | 1.609437912 | -1.323645973 | 2 | -2.295774648 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| I | 5 | 1005-3 | MI | 20130312 | 10:00 | CUCM | 4 | 1.386294361 | -2.567478478 | 7 | -1.591549296 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| I | 5 | 1005-3 | MI | 20130312 | 10:00 | CUCM | 4 | 1.386294361 | -2.567478478 | 8 | -1.450704225 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| I | 2 | 1005-3 | NI | 20130314 | 11:00 | | 5 | 1.609437912 | -1.323645973 | 9 | -1.309859155 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| I | 2 | 1005-3 | NI | 20130314 | 11:00 | | 8 | 2.079441542 | 1.296218181 | 10 | -1.169014085 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| I | 2 | 1005-3 | NI | 20130314 | 11:00 | | 5 | 1.609437912 | -1.323645973 | 9 | -1.309859155 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| B | 10 | 1005-3 | NI | 20130314 | 13:40 | | 7.0 | 1.945910149 | 0.551896037 | 13.0 | -0.746478873 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| B | 10 | 1005-3 | NI | 20130314 | 13:40 | | 7.0 | 1.945910149 | 0.551896037 | 14.0 | -0.605633803 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| B | 10 | 1005-3 | NI | 20130314 | 13:40 | | 7.0 | 1.945910149 | 0.551896037 | 12.0 | -0.887323944 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| B | 6 | 44-3 | NI | 20130228 | 11:00 | | 106.0 | 4.663439094 | -0.979688361 | 38.0 | -0.865671642 | 4.8052 | 0.1447 | 91.9 to 162.3 | 43.8 | 6.7 | 30.6 to 57.0 |
| B | 6 | 44-3 | NI | 20130228 | 11:00 | | 110.0 | 4.700480366 | -0.723701688 | 34.0 | -1.462686567 | 4.8052 | 0.1447 | 91.9 to 162.3 | 43.8 | 6.7 | 30.6 to 57.0 |
| B | 6 | 44-3 | NI | 20130228 | 11:00 | | 112.0 | 4.718498871 | -0.599178498 | 38.0 | -0.865671642 | 4.8052 | 0.1447 | 91.9 to 162.3 | 43.8 | 6.7 | 30.6 to 57.0 |
| A | 3 | 1005-3 | NI | 20130220 | 16:35 | | 8.0 | 2.079441542 | 1.296218181 | 10.0 | -1.169014085 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| A | 3 | 1005-3 | NI | 20130220 | 16:35 | | 8.0 | 2.079441542 | 1.296218181 | 10.0 | -1.169014085 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| A | 3 | 1005-3 | NI | 20130220 | 16:35 | | 8.0 | 2.079441542 | 1.296218181 | 10.0 | -1.169014085 | 1.8469 | 0.1794 | 4.5 - 9.0 | 18.3 | 7.1 | 4.4 - 32.2 |
| A | 3 | 44-3 | MI | 20130220 | 16:35 | PBCM | 118.0 | 4.770684624 | -0.238530584 | 30.0 | -2.059701493 | 4.8052 | 0.1447 | 91.9 to 162.3 | 43.8 | 6.7 | 30.6 to 57.0 |
| A | 3 | 44-3 | MI | 20130220 | 16:35 | PBCM | 126.0 | 4.836281907 | 0.214802398 | 30.0 | -2.059701493 | 4.8052 | 0.1447 | 91.9 to 162.3 | 43.8 | 6.7 | 30.6 to 57.0 |
| A | 3 | 44-3 | MI | 20130220 | 16:35 | PBCM | 117.0 | 4.762173935 | -0.297346684 | 28.0 | -2.358208955 | 4.8052 | 0.1447 | 91.9 to 162.3 | 43.8 | 6.7 | 30.6 to 57.0 |