ISB ICF Review

Statistics Group July 23, 2025

Statistics Group

- Martin Chadwick, Intertek
- Seth Demel, Shell
- Todd Dvorak, Infineum
- Travis Kostan, SwRI
- Jo Martinez, Chevron Oronite
- Sean Moyer, TMC
- Amy Ross, Valvoline
- Phil Scinto, Lubrizol
- Amanda Stone, Afton/New Market

Summary

 SP approved the ICF for ISB hardware HGO in April 2025 and agreed to review once 4 more tests are completed

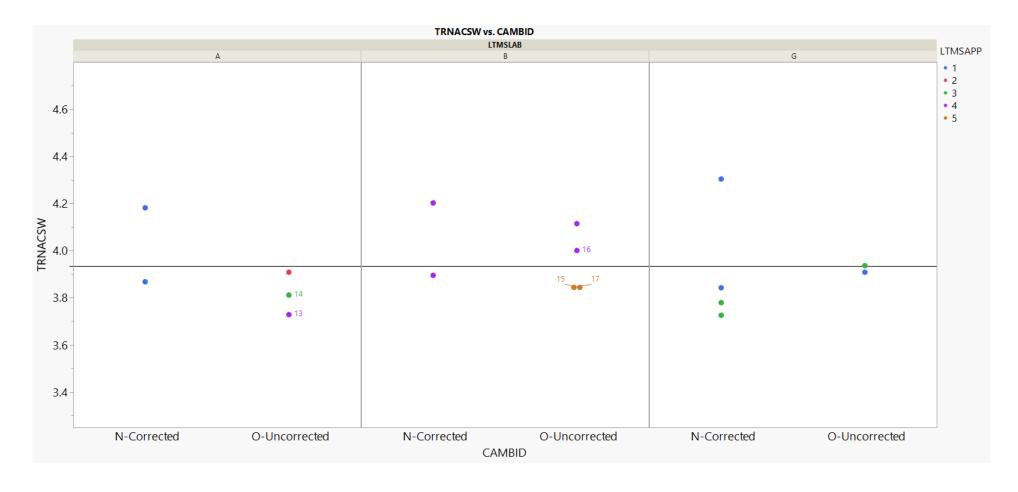
There are 5 new tests available to date from 2 out of 3 labs

Current and updated ICFs are below

Batch ID HGO	Current (n=4)	Updated (n=9 or 7)	
		All Data	Excluding B5
ACSW	None	None	None
ATWL	+1.3147	+1.2484	+1.1153

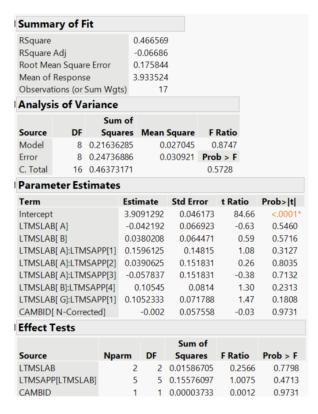
LnACSW (RO 835 only)

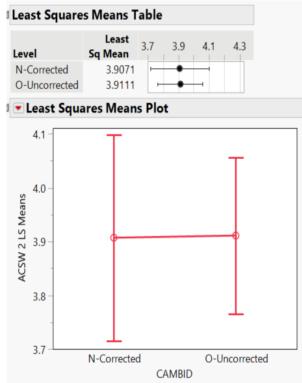
new tests are labeled 13 to 17



LnACSW model

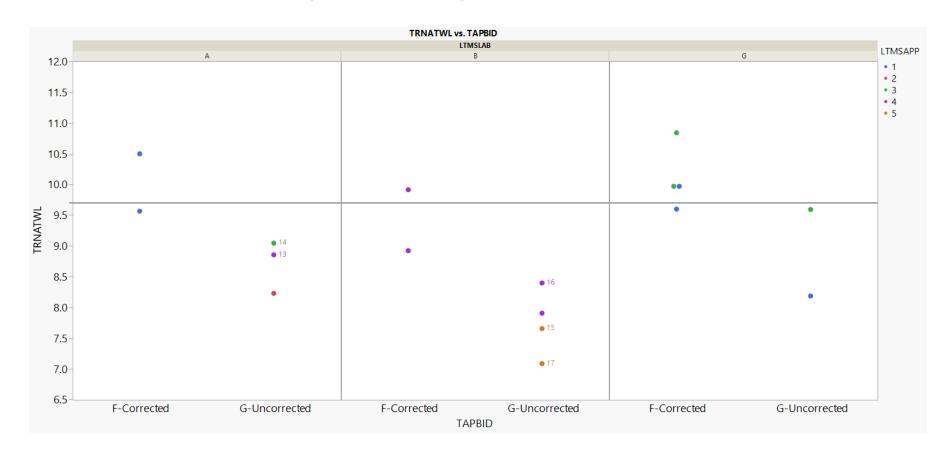
- No significant difference between corrected N and uncorrected O Cam batches
- Predicted LnACSW for CAMID
 O = 3.9111
- 835 Target = 3.9338
- Difference = +0.0227
- Current ICF = None





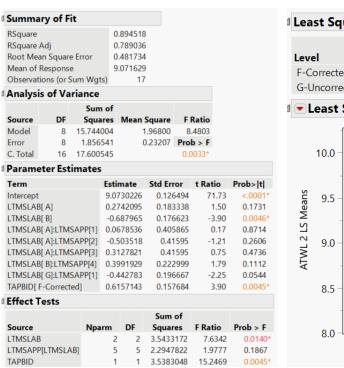
SqrtATWL (RO 835 only)

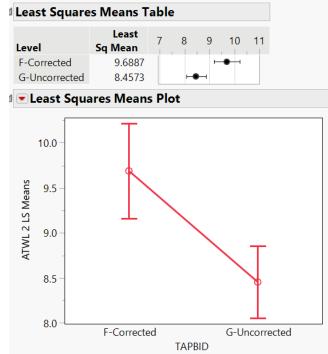
- new tests are labeled 13 to 17
- B5 is a new stand without prior history



SqrtATWL model

- Significant difference between corrected F and uncorrected G Tappet batches
- Predicted SqrtATWL for TAPBID
 G = 8.4573
- 835 Target = 9.7057
- Difference = +1.2484
- Current ICF = +1.3147





SqrtATWL model excluding stand B5

- Significant difference between corrected F and uncorrected G Tappet batches
- Predicted SqrtATWL for TAPBID
 G = 8.5904
- 835 Target = 9.7057
- Difference = +1.1153
- Current ICF = +1.3147

