

DD13 Scuffing Test TEI Data Review Matrix + 3 Post Matrix Tests

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Summary



Kit measurements from 3 post-matrix tests are compared to the measurements observed in the 12 matrix tests

- The 3 post-matrix kit measurement data files are labeled as 105-0031, 105-0031A and 105-031B

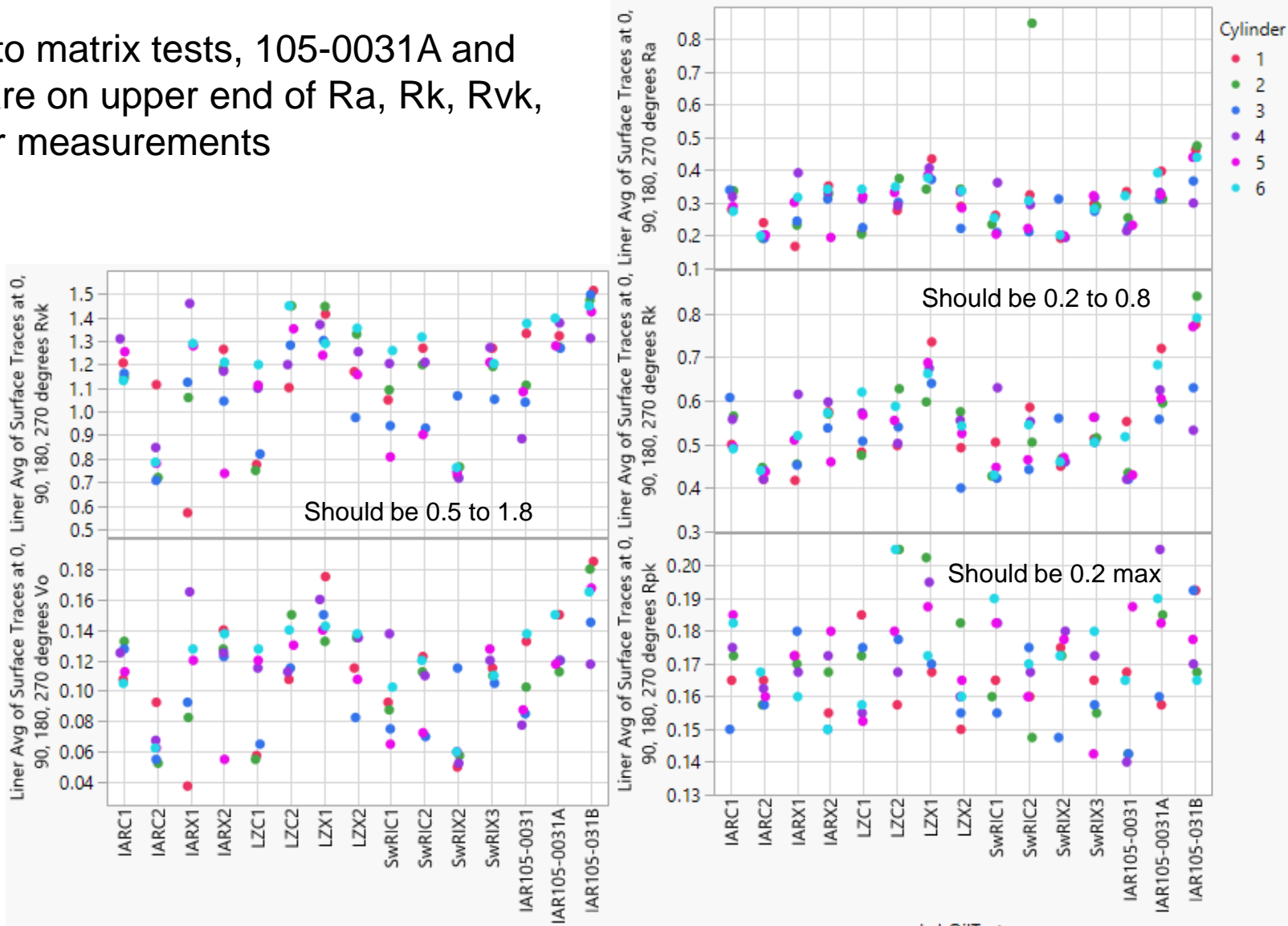
The following differences are observed when the 12 matrix tests are compared to the post matrix tests:

- Liners:
 - 105-0031A and 105-031B are on upper end of Ra, Rk, Rvk, and Vo measurements
- Top Ring:
 - All three post-matrix tests generally have
 - larger ring gaps, face peak height location, and face peak height to 0.2mm diff
 - smaller face width, Ra, Rk, Rpk, Rz, and back of ring width
- 2nd Ring:
 - 3 post-matrix tests tend to have lower ring tension
- Oil Ring:
 - 3 post-matrix tests tend to have lower ring tension and 180° from gap rail height differential
 - 105-0031A and 105-031B ring gaps tend to be higher

Liner Differences



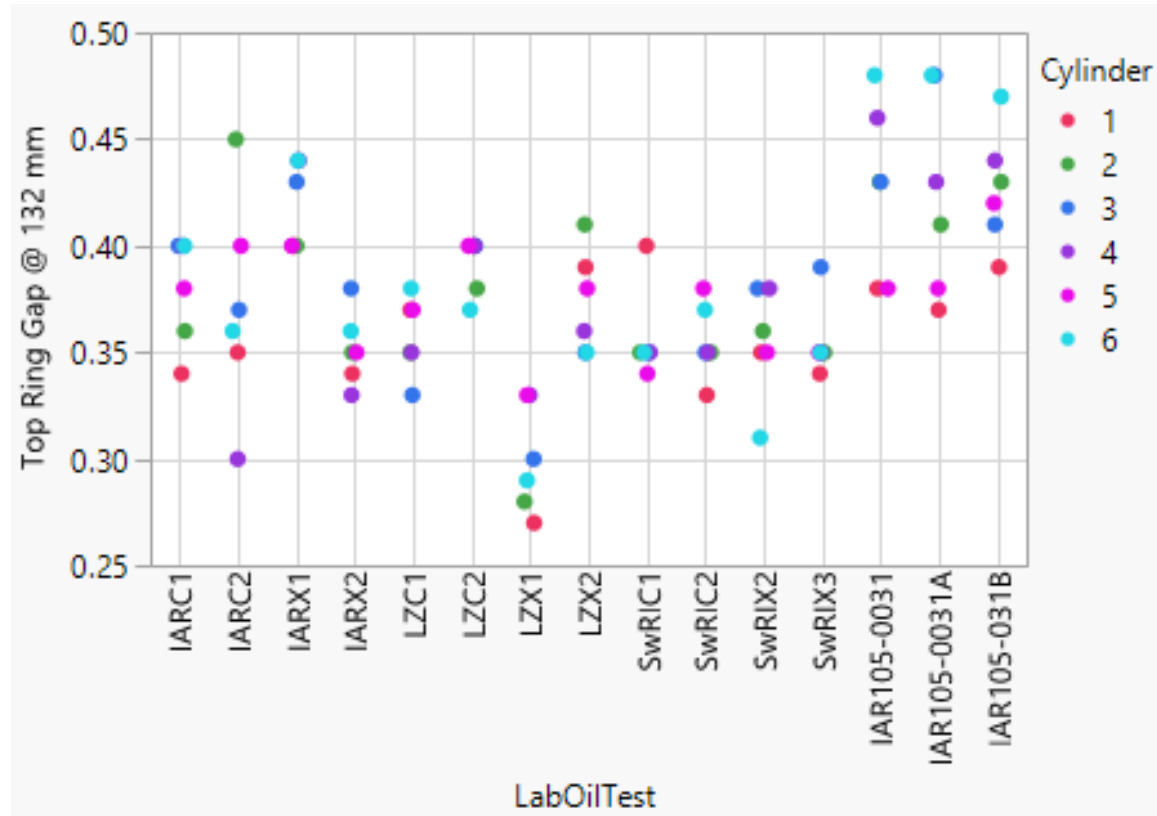
Compared to matrix tests, 105-0031A and 105-031B are on upper end of Ra, Rk, Rvk, and Vo liner measurements



Top Ring Differences Ring Gap



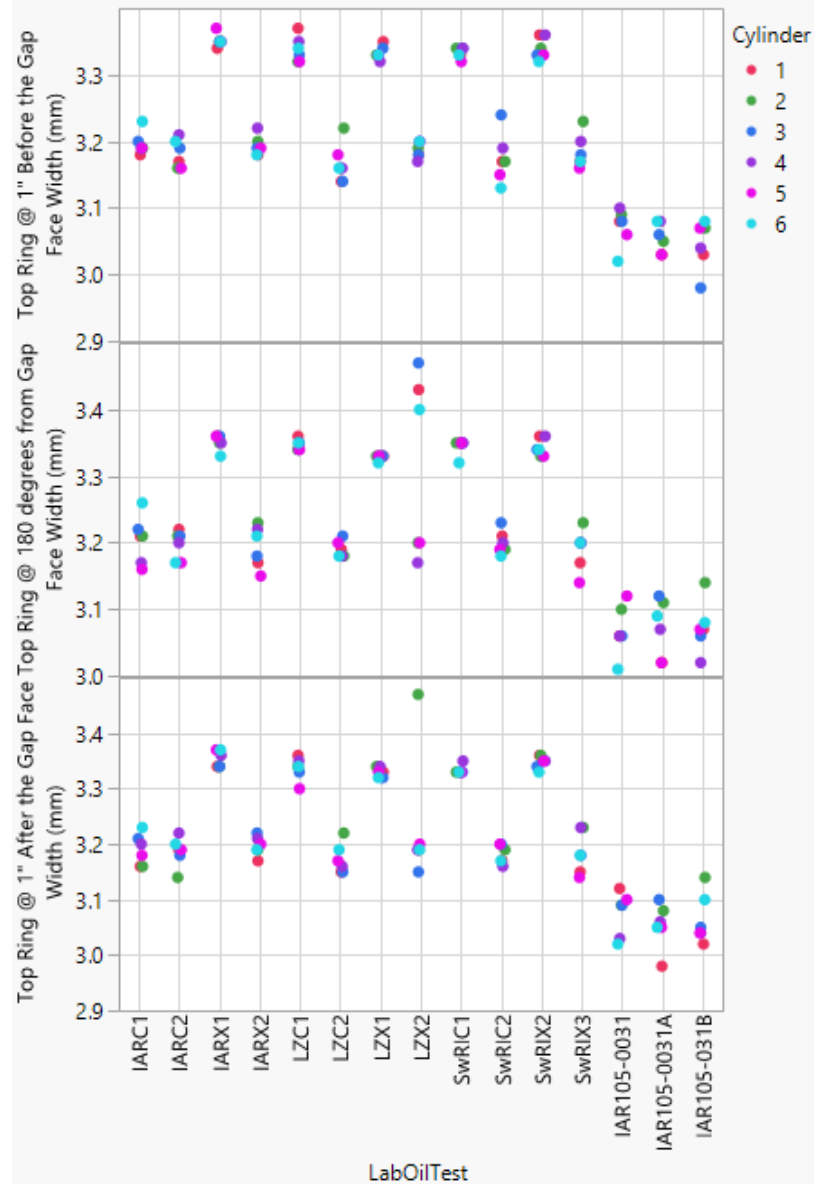
105-0031, 105-0031A and 105-031B generally have larger ring gap measurements than observed in the matrix tests



Top Ring Differences Face Width



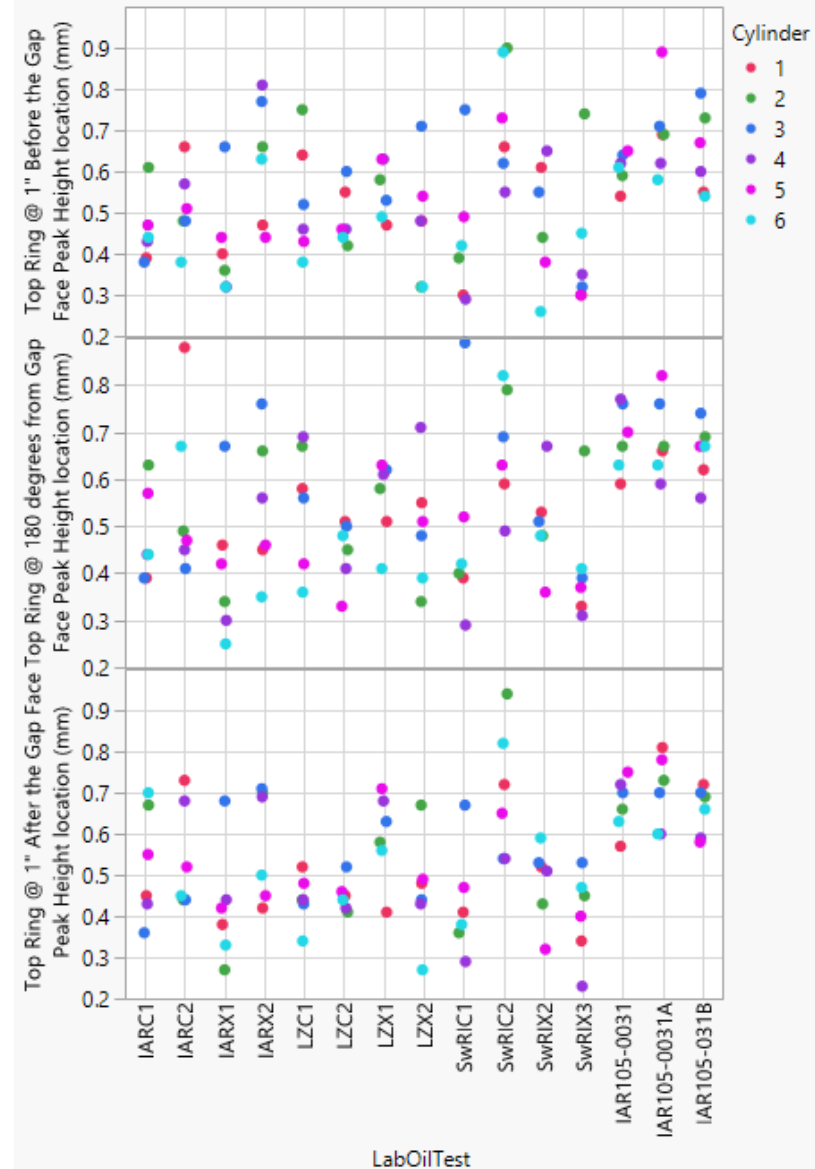
105-0031, 105-0031A and 105-031B have lower face width measurements than observed in the matrix



Top Ring Differences Face Peak Height Location



105-0031, 105-0031A and 105-031B
have face peak height location
measurements on the upper end of
what was observed in the matrix



Top Ring Differences Face Peak Height to 0.2mm Diff



105-0031, 105-0031A and 105-031B
face peak height to 0.2 mm diff
measurements are on upper end of
measurements observed in the matrix

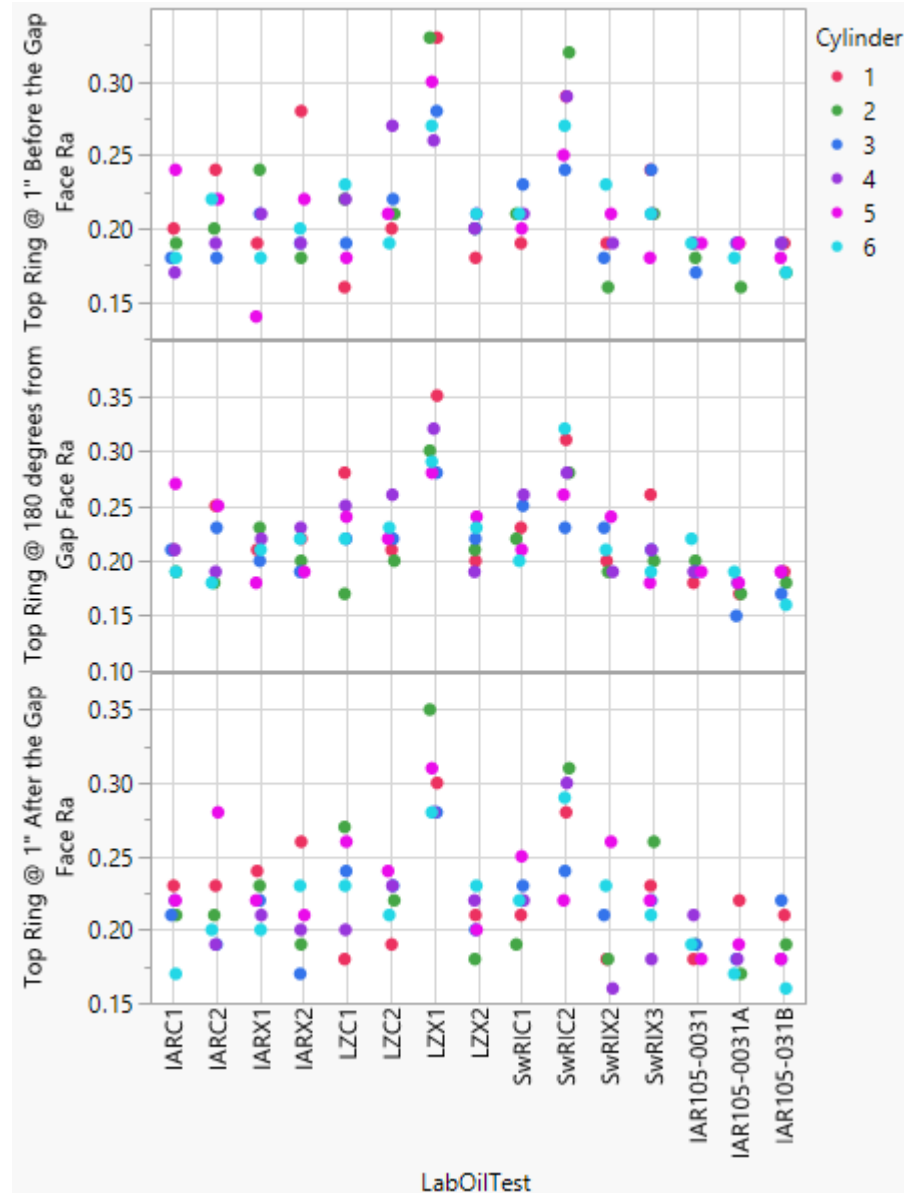


Top Ring Differences Ra



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105-0031, 105-0031A and 105-031B
Ra measurements tend to be on the
lower end of measurements observed
in the matrix

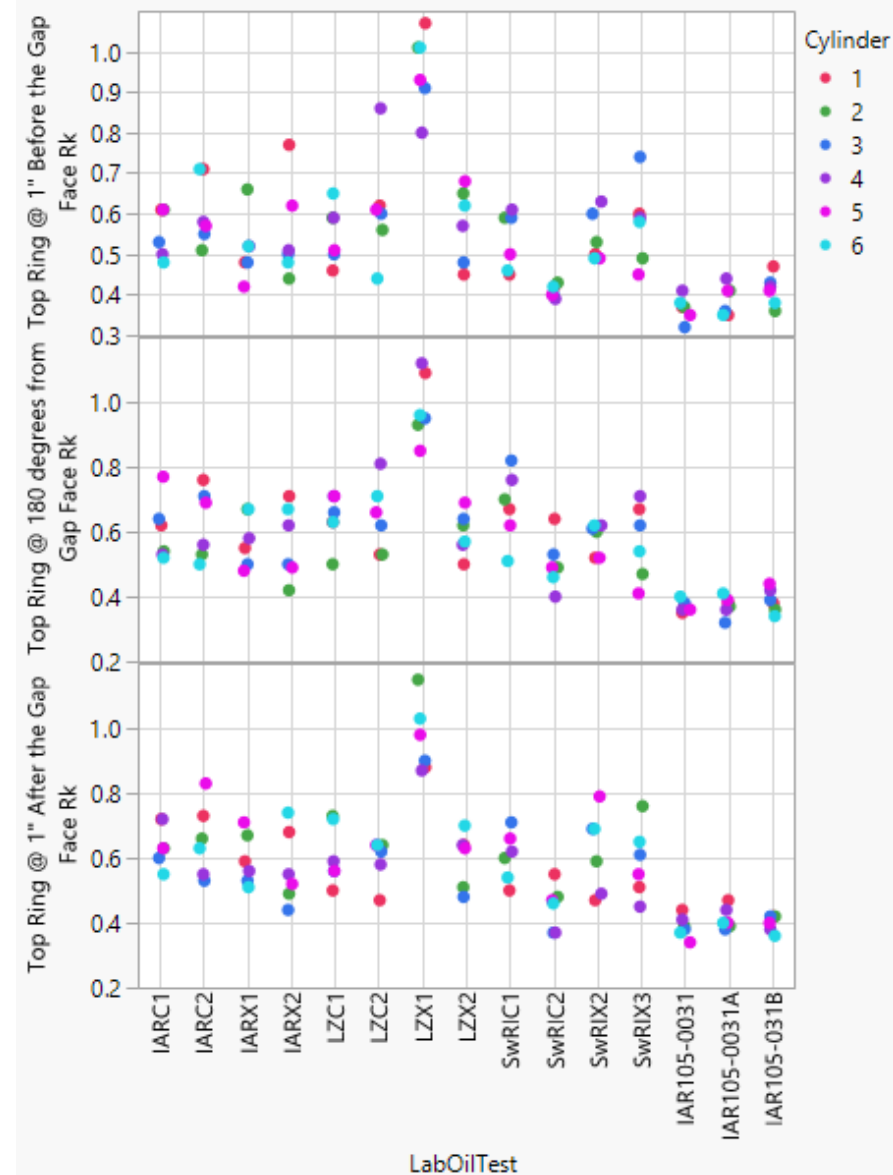


Top Ring Differences Rk



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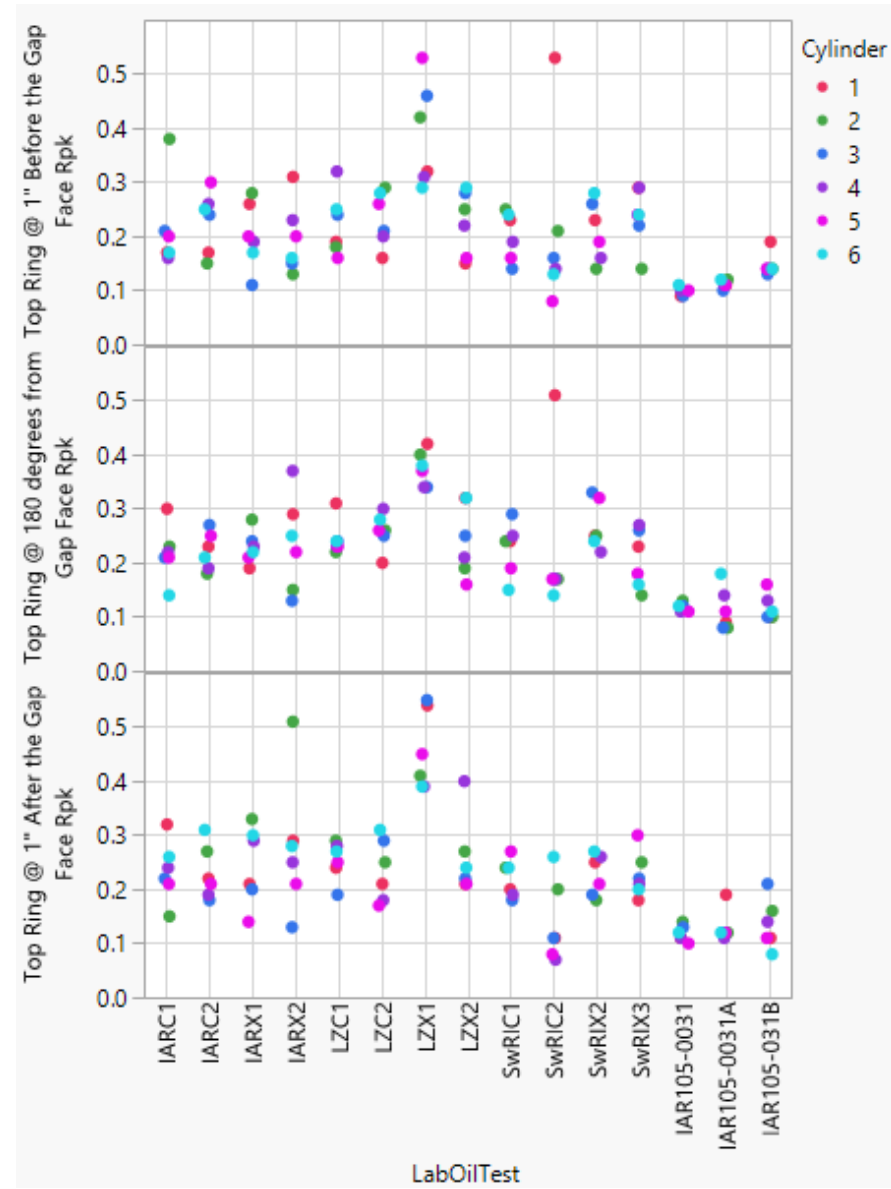
105-0031, 105-0031A and 105-031B
Rk measurements are generally lower
than those observed in the matrix



Top Ring Differences Rpk



105-0031, 105-0031A and 105-031B Rpk measurements are generally lower than what was observed in the matrix

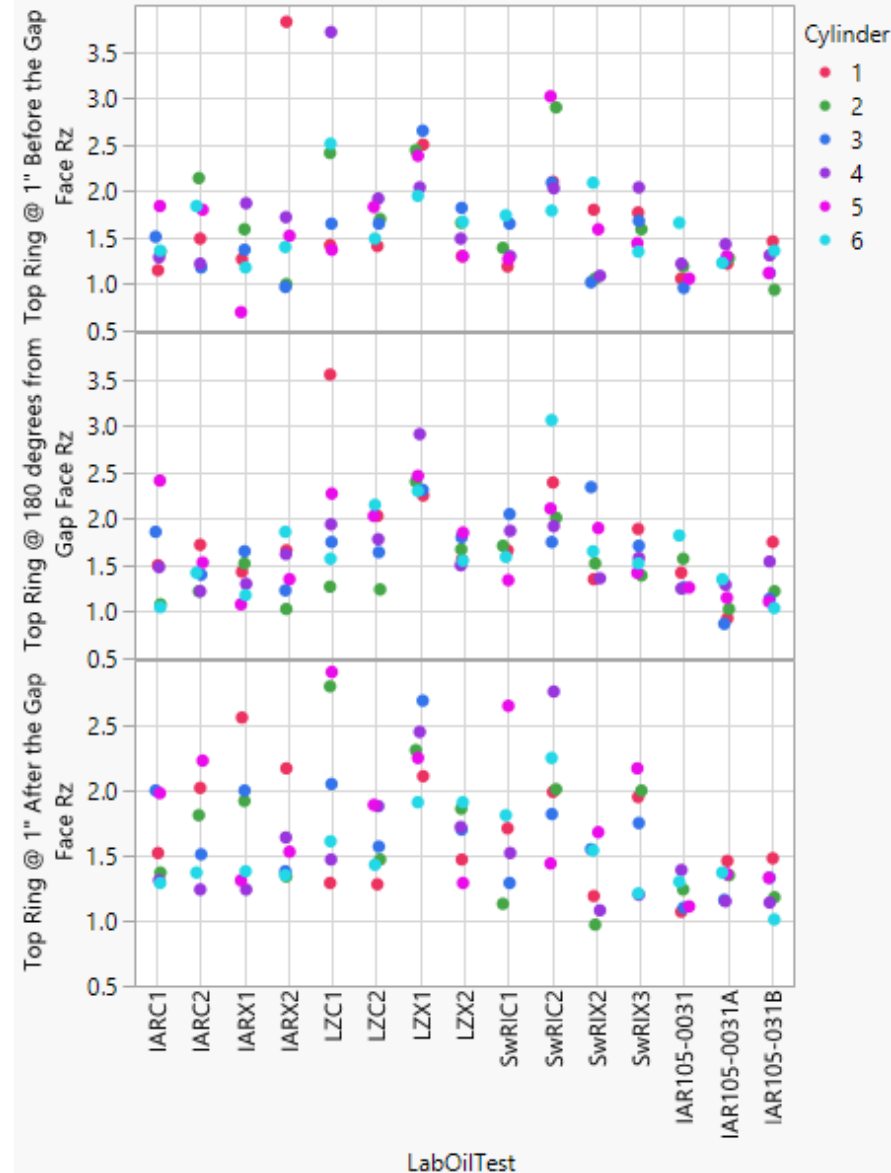


Top Ring Differences Rz



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105-0031, 105-0031A and 105-031B
Rz 1" after the gap measurements
are on the lower end of what was
observed in the matrix

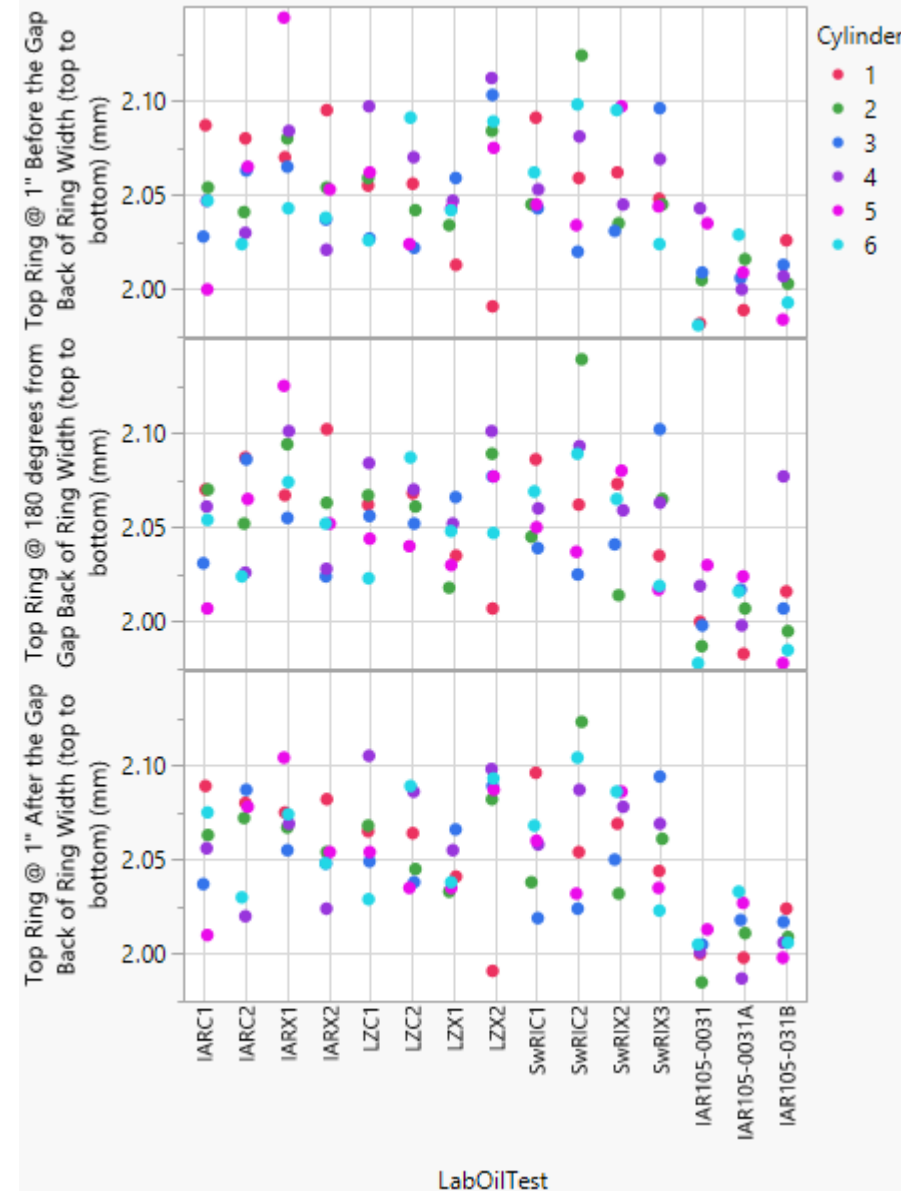


Top Ring Differences Back of Ring Width



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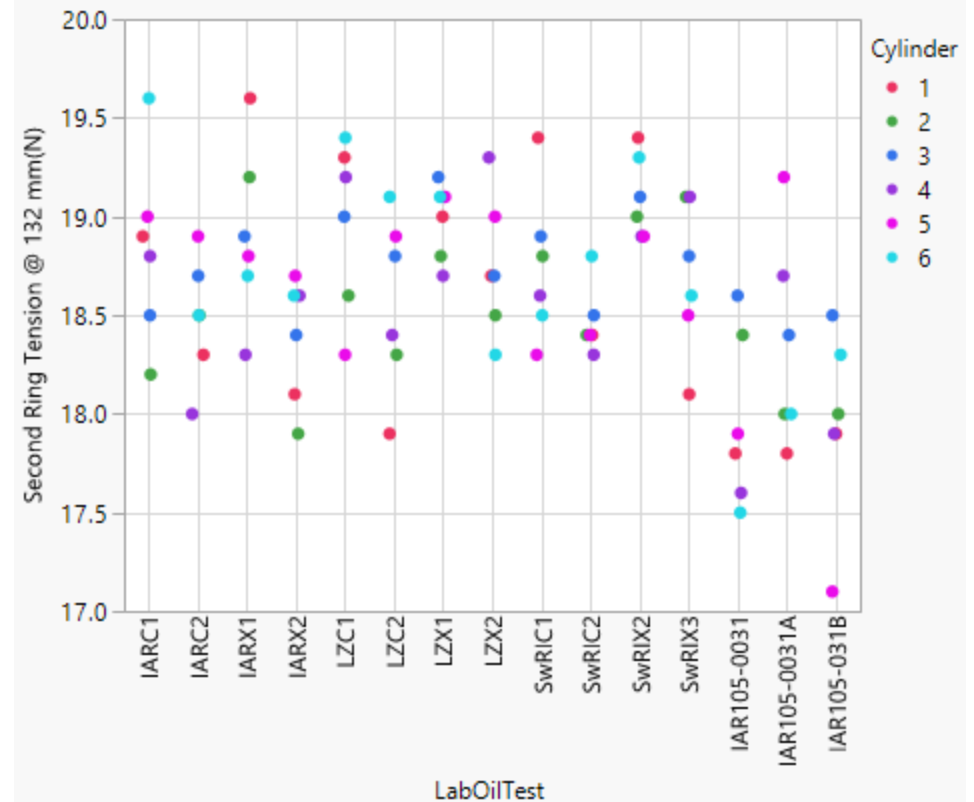
105-0031, 105-0031A and 105-031B generally have lower back of ring width measurements than what was observed in the matrix



Second Ring Differences Ring Tension @ 132 mm



105-0031, 105-0031A and 105-031B tend to have lower ring tension measurements than the matrix tests

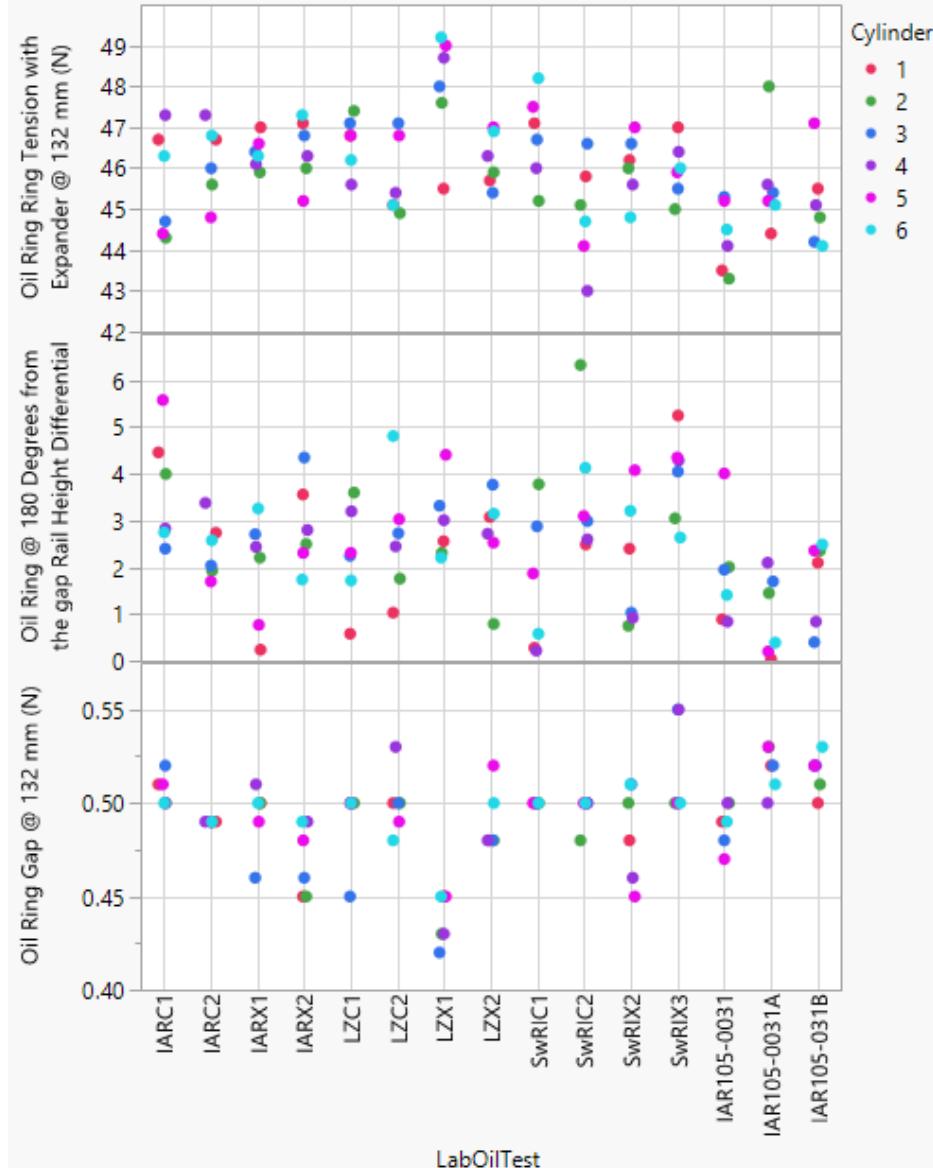


Oil Ring Differences



105-0031, 105-0031A and 105-031B tend to have lower ring tension & 180° from gap rail height differential measurements compared to the matrix tests

105-0031A and 105-031B have ring gap measurements on the upper end of what was observed in matrix tests





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