

**Appendix H:** Statistical analysis for calibration data using S600 standard oil at 25°C

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<u>viscosity1</u>	<u>viscosity2</u>	<u>viscosity3</u>	<u>mean average</u>	<u>standard dev</u>	<u>% difference</u>
<u>1.1540</u>	<u>1.1570</u>	<u>1.1240</u>	<u>1.1450</u>	<u>0.0182</u>	<u>1.5937</u>
<u>1.1570</u>	<u>1.1570</u>	<u>1.1260</u>	<u>1.1467</u>	<u>0.0179</u>	<u>1.5609</u>
<u>1.1540</u>	<u>1.1490</u>	<u>1.1250</u>	<u>1.1427</u>	<u>0.0155</u>	<u>1.3567</u>
<u>1.1520</u>	<u>1.1460</u>	<u>1.1250</u>	<u>1.1410</u>	<u>0.0142</u>	<u>1.2425</u>
<u>1.1510</u>	<u>1.1440</u>	<u>1.1260</u>	<u>1.1403</u>	<u>0.0129</u>	<u>1.1310</u>
<u>1.1500</u>	<u>1.1440</u>	<u>1.1250</u>	<u>1.1397</u>	<u>0.0131</u>	<u>1.1452</u>
<u>1.1490</u>	<u>1.1430</u>	<u>1.1250</u>	<u>1.1390</u>	<u>0.0125</u>	<u>1.0966</u>
<u>1.1490</u>	<u>1.1420</u>	<u>1.1240</u>	<u>1.1383</u>	<u>0.0129</u>	<u>1.1330</u>
<u>1.1490</u>	<u>1.1420</u>	<u>1.1240</u>	<u>1.1383</u>	<u>0.0129</u>	<u>1.1330</u>
<u>1.1480</u>	<u>1.1420</u>	<u>1.1230</u>	<u>1.1377</u>	<u>0.0131</u>	<u>1.1472</u>
<u>1.1470</u>	<u>1.1430</u>	<u>1.1240</u>	<u>1.1380</u>	<u>0.0123</u>	<u>1.0798</u>
<u>1.1460</u>	<u>1.1430</u>	<u>1.1240</u>	<u>1.1377</u>	<u>0.0119</u>	<u>1.0487</u>
<u>1.1450</u>	<u>1.1440</u>	<u>1.1240</u>	<u>1.1377</u>	<u>0.0118</u>	<u>1.0413</u>
<u>1.1430</u>	<u>1.1430</u>	<u>1.1240</u>	<u>1.1367</u>	<u>0.0110</u>	<u>0.9651</u>
<u>1.1450</u>	<u>1.1410</u>	<u>1.1230</u>	<u>1.1363</u>	<u>0.0117</u>	<u>1.0313</u>
<u>1.1430</u>	<u>1.1400</u>	<u>1.1230</u>	<u>1.1353</u>	<u>0.0108</u>	<u>0.9500</u>
<u>1.1430</u>	<u>1.1390</u>	<u>1.1220</u>	<u>1.1347</u>	<u>0.0112</u>	<u>0.9827</u>
<u>1.1430</u>	<u>1.1390</u>	<u>1.1210</u>	<u>1.1343</u>	<u>0.0117</u>	<u>1.0331</u>
<u>1.1420</u>	<u>1.1390</u>	<u>1.1200</u>	<u>1.1337</u>	<u>0.0119</u>	<u>1.0524</u>
<u>1.1420</u>	<u>1.1400</u>	<u>1.1200</u>	<u>1.1340</u>	<u>0.0122</u>	<u>1.0728</u>
<u>1.1420</u>	<u>1.1410</u>	<u>1.1210</u>	<u>1.1347</u>	<u>0.0118</u>	<u>1.0440</u>
<u>1.1420</u>	<u>1.1410</u>	<u>1.1220</u>	<u>1.1350</u>	<u>0.0113</u>	<u>0.9929</u>
<u>1.1440</u>	<u>1.1410</u>	<u>1.1230</u>	<u>1.1360</u>	<u>0.0114</u>	<u>0.9998</u>
<u>1.1440</u>	<u>1.1400</u>	<u>1.1230</u>	<u>1.1357</u>	<u>0.0112</u>	<u>0.9818</u>
<u>1.1440</u>	<u>1.1420</u>	<u>1.1240</u>	<u>1.1367</u>	<u>0.0110</u>	<u>0.9691</u>
<u>1.1440</u>	<u>1.1420</u>	<u>1.1250</u>	<u>1.1370</u>	<u>0.0104</u>	<u>0.9182</u>
<u>1.1440</u>	<u>1.1420</u>	<u>1.1250</u>	<u>1.1370</u>	<u>0.0104</u>	<u>0.9182</u>
<u>1.1450</u>	<u>1.1400</u>	<u>1.1240</u>	<u>1.1363</u>	<u>0.0110</u>	<u>0.9654</u>

<u>1.1450</u>	<u>1.1390</u>	<u>1.1220</u>	<u>1.1353</u>	<u>0.0119</u>	<u>1.0508</u>
<u>1.1440</u>	<u>1.1390</u>	<u>1.1220</u>	<u>1.1350</u>	<u>0.0115</u>	<u>1.0161</u>

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