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ERRATUM

Film-Forming Characteristics of Grease in Point Contact Under Swaying Motions

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While performing additional investigations, we have discovered some minor errors in Eqs. (2), (3), (11), and (12) in the original article. The corrected equations are as follows:

$$h_c = 1.899\alpha^{0.53}\frac{(u\eta_G)^{0.67}R'^{0.464}}{E'^{0.073}W^{0.067}} \quad (2)$$

$$h_{\min} = 1.791\alpha^{0.49}\frac{(u\eta_G)^{0.68}R'^{0.466}}{E'^{0.117}W^{0.073}} \quad (3)$$

$$K_1 = 1.899\alpha^{0.53}\frac{\eta_G^{0.67}R'^{0.464}}{E'^{0.073}W^{0.067}} \quad (11)$$

$$K_2 = 1.791\alpha^{0.49}\frac{\eta_G^{0.68}R'^{0.466}}{E'^{0.117}W^{0.073}} \quad (12)$$

In this case, the values in Fig. 10 decrease slightly. However, these errors do not affect the conclusion that at a same entering velocity, the central film thickness under deceleration is higher than that under acceleration. The corrected Fig. 10 is as follows:

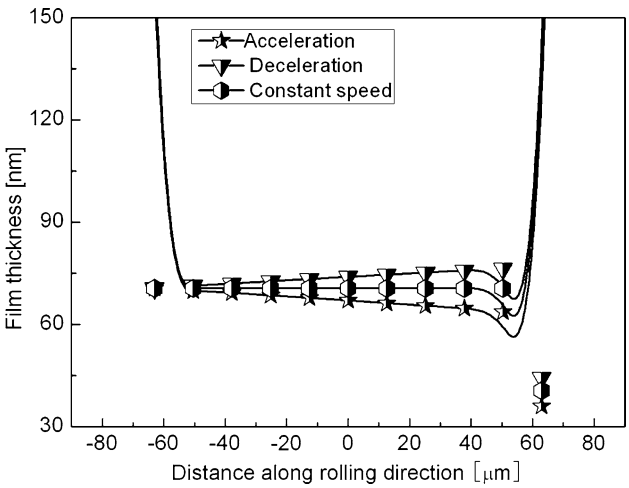

Fig. 10 Comparison of the film thickness profiles and film thickness values under different accelerations (a > 0, a < 0, and a = 0)

The online version of the original article can be found under doi: 10.1007/s11249-009-9433-7.

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