

Using Friction Behaviour to Evaluate the Performance of Lubricants and Coatings on Sliding Surfaces

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ABSTRACT: When two sliding surfaces seize the results are often catastrophic resulting in equipment failure, production downtime, and in some cases injuries. Lubricant formulations and special coatings are used to protect against seizure of sliding metal surfaces adhesive wear. However, the stochastic behaviour of heavily loaded surfaces means that failure is unpredictable and evaluating the effectiveness of lubricants is difficult. This talk will describe the challenges of designing a test apparatus and analysing data to screen lubricants and coatings for industrial applications.

Greg Dalton is a Mechanical Engineer, BAsC, MASc (Waterloo); PhD (Laurentian), who has applied principles of tribology in automotive manufacturing for more than 25 years. He is currently an instructor in the Mechanical Engineering Technology program at the College of the North Atlantic, St. John's.

ALL ARE WELCOME!!!