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Nota di contenuto	On The Reasons That Make Bench Tests Unrealiable / K Mizuhara, M Tomimoto -- Limitations of Bench Testing for Gear Lubricants / B-R Hoehn, K Michaelis, A Doleschel -- Use of Bench Tests to Evaluate Water-Glycol Hydraulic Fluid Lubrication / GE Totten, RJ Bishop, L Xie -- The Lulea Ball and Disc Apparatus / J Lord, U Jonsson, R Larsson, O Marklund, E Eriksson, O Uusitalo -- A Spiral Orbit Rolling Contact Tribometer / E Kingsbury, S Pepper -- M-ROCLE Diesel and Biodiesel Fuel Lubricity Bench Test / JW Munson, PB Hertz -- Assessment of the Tribological Function of Lubricants for Sheet Metal Forming / J Filzek, P Groche -- Determination of Gear and Bearing Material Scuffing Limits Using High-Speed Disk Machines / RW Snidle, HP Evans, MP Alanou -- Effects of Friction Modifiers on Wear Mechanism of Some Steels Under Boundary Lubrication Conditions / H So, CC Hu -- Testing Extreme Pressure and Anti-Wear Performance of Crankcase and Gearbox Lubricants / AF Alliston-Greiner, AG Plint, MA Plint -- Tribological Testing of Lubricants and Materials for the System "Piston Ring/Cylinder Liner" Outside of Engines / M Woydt, N Kelling -- Aircraft Hydraulic Pump Tests with Advanced Fire-Resistant Hydraulic Fluids / SK Sharma, CE Snyder, LJ Gschwender -- A New Device for Traction Measurement on Ice / J Xiao, H Liang, R Crisenberry, M Cook -- Influence of Test Parameters on Tribological Results - Synthesis from Round Robin Tests / M Woydt -- Identification of Boundary Friction Coefficient Under Mixed Lubrication in Block-on-Ring Friction Tester

with Aid of Partial EHL Analysis / S Tanaka, T Nakahara, K Kyogoku, S Momozono -- Investigation of Frictional Properties of Lubricants at Transient EHD-Conditions / B-O Ahnstrom -- Bench Test Determinations of Wear Modes to Classify Morphological Attributes of Wear Debris / BJ Roylance, TP Sperring, TG Barraclough -- A New Look at an Old Idea: The Torque Curve Revisited / KM Helmetag -- Evaluation of Fretting Wear Under Oscillating Normal Force / MZ Huq, J-P Celis -- The Use of Tribological Aspect Numbers in Bench Test Selection - A Review Update / M Anderson -- Corrosive Wear Testing of Metals in Seawater / T Kawazoe, A Ura -- Simulation of Tribological Performance of Coatings for Automotive Piston Ring and Timing Chain in Bench Testing / C Gao, N Gitis, N Nguyen, M Vinogradov -- Tribology Testing for Load Carrying Capacity of Aircraft Propulsion System Lubricating Oils / LD Wedeven, E Hille -- Author Index -- Subject Index.

Sommario/riassunto

Discusses the selection of bench tests and testing conditions to model the lubrication and wear properties of fluids used in industrial machines and components, such as compressors, pumps, chain drives, transmissions, and bearings. Based on a June 2000 symposium held in Seattle, the 23 papers are divided into sections on equipment lubrication correlation problems, test development, evaluation of bench test results, and simulation of tribological performance. Topics include the use of bench test to evaluate water-glycol hydraulic fluid lubrication, a spiral orbit rolling contact tribometer, a new device for traction measurement on ice, and corrosive wear testing of metals in seawater. c. Book News Inc.
