1. Record Nr. UNINA9910164289703321

Titolo	Hydraulic Failure Analysis: Fluids, Components, and System Effects
Pubbl/distr/stampa	[Place of publication not identified], : American Society for Testing & Materials, 2001
ISBN	0-8031-5567-0
Descrizione fisica	1 online resource (x, 601 pages)
Collana	ASTM special technical publication ; ; 1339
Disciplina	621.2/0424
Soggetti	Fluid power technology Oil hydraulic machinery
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Sommario/riassunto	Annotation Based on a December 1999 symposium held in Reno, this collection of 41 papers reviews new technologies being developed to address hydraulic wear and failure problems. The main subjects are tribological design, failure analysis, improved materials, seals, and the effects of fluids on hydraulic pump wear. Within failure analysis, the contributors discuss methods for root cause analysis to identify hydraulic wear, different applications of wear particle analysis to identify the sources of hydraulic component failure, and examples of hydraulic pump and rolling element bearing wear. Other topics include mechanisms of abrasive wear in lubricated contacts, laser surface texturing of mechanical components, and hydraulic valve problems caused by oil oxidation products. c. Book News Inc.