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NATIONAL CONFERENCE ON INDUSTRIAL TRIBOLOGY

398 July

HOTEL OBEROI GRAND, CALCUTTA
7-8, September 1981

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TECHNICAL SESSION—IV: BEARING DESIGN AND PERFORMANCE

Papers

- Role of oil in the reliable operation of cylindrical Bearing
 —Harprasad & Laxmi Ramnathan
- L.S.—260 Silver 2.1 Limiting speeds for rigid and flexible rotors supported on three-Lobe journal bearings

 —B.K. Gupta & Ajeet Singh
 - 3. Static and Dynamic performance characteristics of compliant shell Journal Bearing

 —S.C. Jain, R. Sinhasan & D.V. Singh
 - 4. Computer aided design of Precision Machine tool Bearings

 —R.C. Ghai
 - 5. Analysis of Hydrodynamic Journal Bearings having
 Non-Newtonian Lubricants (Eyring Model) by a finite
 element method
 - -S.P. Tayal, R. Sinhasan & D.V. Singh
 - 6. Elastohydrodynamic Lubrication of Journal Bearing
 C. Mishra, B.C. Majumdar & N.S. Rao

TECHNICAL SESSION—V: SPECIAL INSTRUMENTAL TECHNIQUES

Papers

- Contributions of Instrumental analytical techniques towards understanding and solving Triblogical Problems
 N.C. Saha
- 2. Nuclear Activation Methods in Wear Analysis

 —S. Gangadharan
 - 3. Criteria for change of Lubricating oils based on Ferrography N. Santanam, K.K. Chaturvedi& S. Biswas
 - Condition Monitoring of Antifrication bearings
 S.K. Verma & K. Ganapathi
 - Prediction of Journal Bearing failures using non-Contact Eddy Current Probes—Experimental investigation on Journal Bearing Test Rig
 S.K. Verma & K. Dargaiah
- 6. Evaluation of Antioxidants in Lubricating oils by Differential
 Thermal Analysis and Infrared Sepectroscopy
 —A.K. Biswas, B.D. Chattaraj, I. Suryanarayanan & V.S.B. Rao
 - Identification of metal soaps in grease by Infared absorption analysis
 D.K. Singh, R.N. Das & K.K. Patidar

TECHNICAL SESSION—VI: CASE STUDIES

Papers

- Engine Oil drain period for Aircraft Engines
 A.K. Biswas, B. Subrahmanyam & S.A.A. Rizvi
- Heat Resistance of Turbine Oils
 V.S. Metha, D.K. Singh & A.K. Govila
- 3. Effect of mixing of sodium soap base and Lithium soap base greases —D.K. Singh, A.K. Govila & S.B. Srivastava
- Improvement of Tribological practices in wet process cement plant
 S. Ghosh & D.V. Kalra
- 5. Case Studies from Durgapur Steel Plant

Role of oil in the reliable operation of cylindrical INDUSTRIAL OILS TECHNICAL SESSION—I:

- Papers 1. New Developments in Antiwear Hydraulic Oils-R.J. Perej
 - 2. /Lubrication of Railway Axle Box-B. Basu, (Mrs) M. Malathi, S.P. Srivastava & G. Jayarama Rao

TECHNICAL SESSION-IV:

- lo solizing on 3. Conservation of Lubricating oil with special reference to Bokaro Steel Plant - A. K. Misra
- 4. Tribological studies of some Extreme Pressure Additives entined loot entided no -A. Mammen, V.K. Verma & C.V. Agarwal
 - 5. Effect of γ irradiation on viscosity changes in some oils grived agricus Containing Viscosity Index Improvers LZ 3140 & LZ 7409 shind a vel (labol of -S.B. Srivastava & V.G. Thomas
 - 6. Some Aspects of Gear Tribology dgail -R. Krishnamurthy MysT 9.2
 - A note on shear behaviour of oil films in lubrication of ons concentrated contacts.
 - —L. Nayak

BEARING DESIGN AND PERFORMANCE

TECHNICAL SESSION—II:

TECHNICAL SESSION-V: SPECIAL I AUTOMOTIVE OILS

- Papers 1. Optimisation of Diesel ring pack through factorial testing -R.P. Sharma
 - eighted 2. A study of lubricant degradation in Automotive Diesel Engines
 - -S.K. Jain & S. Singhal
 - 3. Tribological aspects in the use of Ethanol Gasoline annius of blends in Indian Cars M notified -N.R. Raje, R.K. Malhotra & P.K. Goel
- tonino and and 4. Ash and Wear R.D. Srivastva & A.K. Mehrotra
 - 5. Study of frictional characteristics of two stroke engine oils and its relevance to Energy Conservation -V.K. Jain, R.P.S. Bist, M. Ram & A. Sethuramiah
 - 6. Some studies on development of Test procedure for oxidation stability of crankcase oils using Villiers Engine boughal vd oza -S. Singhal & S.K. Jain

TECHNICAL SESSION—III:

SOLID LUBRICANTS AND METAL WORKING OILS

Papers

- On Tribological Recations during machining with Cemented TECHNICAL SESSION-VI: CASE Titanium Carbide Tools
- ennignd ...-B.J. Ranganath & V.C. Venkatesh
- An Experimental Investigation of Frictional Properties of Graphite and MoS2 on Amsler Disc Machine -V.R.K. Shastri, S.D. Phatak & A. Sethuramiah
- osed associations into the tool behaviour during accelerated SVEIZEVING Machining Tests

 - oorg lew ni 200-A.S. Jheeta & V.K Jain ovorgmi 4. A Laboratory test method for selection of Quenching Oils -A.K. Mehta, S.P. Dubey & P.K. Goel
 - 5. Role of Graphite in Tribological Applications -K.K. Datta