SYMPOSIUM ON OXIDATION AND THE TESTING OF TURBINE OILS

Sponsored by: Committees D02.09 on Oxidation and D02.C0 on Turbine Oils

December 5, 2005
Waterside Convention Center
Norfolk, Virginia

Symposium Co-Chairman: Cyril A. Migdal
Chemtura Corporation
Middlebury, Connecticut
USA

Andrea B. Wardlow
ExxonMobil Research & Engineering
Paulsboro, New Jersey
USA

MONDAY, DECEMBER 5, 2005

8:15 AM
Opening Remarks
Andrea Wardlow, Symposium Co-Chair

8:30 AM
Oxidation Fundamentals and its Application to Turbine Oil Testing
V. J. Gatto, W. E. Moehle, T. W. Cobb, and E. R. Schneller, Albemarle Corporation, Baton Rouge, Louisiana, USA

9:00 AM
Modern Turbine Oil Oxidation Performance Limits – Meeting And Measuring Them. A Shell Perspective
P. W. R. Smith, Shell Global Solutions, Chester, United Kingdom

9:30 AM
Physical, Chemical and Performance Changes in Turbines Oils from Oxidation
B. Thompson, Analysts, M. Okazaki, Chevron Corporation; Richmond, California, USA; and G. Livingstone, Clarus Technologies, Bellingham, Washington, USA

10:00 AM BREAK
10:30 AM  
**Studies of the Oxidation Dynamics of Turbine Oils in a New Form of the Rotating Pressure Vessel Oxidation Test**  
T. W. Selby and S. W. Froelicher, Savant, Incorporated, Midland, Michigan, USA; and J. Secrist, Tannas Company, Midland, Michigan, USA

11:00 AM  
**Review of Degradation Mechanisms Leading to Sludge and Varnish in Modern Turbine Oil Formulations**  
J. C. Fitch and S. Gebarin, Noria Corporation, Tulsa, Oklahoma, USA

11:30 AM  
**New Turbine and Lubricant Technology Requires New Customer Focused Oil Monitoring Methods**  
L. Quick, Siemens Power Generation, Muelheim/Ruhr, Germany

12:00 N  
**LUNCH (On Your Own)**

1:30 PM  
**Contamination of Power Generation Lubricants**  
A. Barber, B. Butke, D. Light, T. Oliveto, and F. Ondarza, The Lubrizol Corporation, Wickliffe, Ohio, USA

2:00 PM  
**Evaluation and/or Correlation between Oxidation Test Methods of Turbine Oil Fluids**  
M. Pach, T. Norrby, Statoil Lubricants, Nynäshamn, Sweden; K. Zobel, Statoil Lubricants, Fagerstrand, Norway

2:30 PM  
**Residue Analysis on RPVOT Test Samples for Single and Multiple Antioxidants Chemistry for Turbine Lubricants**  
A. Sitton, Focus Laboratories, Bangkok, Thailand; J. Ameye, Fluitec International, Brussels, Belgium; and R. Kauffman, University of Dayton Research Institute, Dayton, Ohio, USA

3:00 PM  
**BREAK**

3:15 PM  
**Oxidation Testing of Long-life Turbine Oil Fluids. Can We Do Better?**  
B. C. Roell, Jr., D. Chasan, and S. Difrancesco, Ciba Specialty Chemicals, Tarrytown, New York, USA; M. Ribeaud, Ciba Specialty Chemicals, Basel, Switzerland

3:45 PM  
**Field Investigation of the Root Cause of Varnish Production in Gas Turbine Oil Systems**  
A. Sasaki, Shinji Uchiyama, and M. Kawasaki, Kleentek Corporation, Tokyo, Japan
4:15 PM  
Panel Discussion/Open Forum  
All Presenters/Symposium Organizers

5:15 PM  
Closing Remarks  
Cyril Migdal, Symposium Co-Chair

5:20 PM  
SYMPOSIUM ADJOURNS

revised 10/04/05