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Researchers and acknowledged scientists.

success stories and knowledge.

Application experts.



The OilDoc Conference and Exhibition – your special event.

99 presentations, 25 sessions and a major international exhibition



To showcase and demonstrate:

Your latest products and services.

scientific discoveries.

lubricants

✓ Innovative solutions for the application of

✓ The results of your current research and



To benefit from:















Lubricants Maintenance

Tribology

Jan. 27-29, **2015** SALZBURG Bavaria - Germany

Advertising and Promotion

At the 2015 OilDoc Conference and Exhibition you will contact and get to know the most important decision makers. There is nearly no better way to reach them all. OilDoc offers a whole range of possibilities for classic advertising as shown in our catalogue and extraordinary promotion activities as well.

If you are interested, please contact our promotion experts. They will advise you!

MUNICH

The distance from Munich International Airport to Rosenheim is 98 km, from Salzburg Airport 82 km. The venue is situated at motorway A8 Munich/ Salzburg and easily accessible. The journey from the airport takes about one hour.

Hotel Booking at special rates

✓ New suggestions to cope with the lubrication We reservered a limited number of rooms at different local hotels in various price categories. A list with all hotels can be found on our website. To book rooms at special rates in these hotels please use the promotional code "OilDoc Conference 2015". We offer a shuttle-bus service for all listed hotels that are Excellent networking opportunities during the official part of the conference and the social not in walking distance to the venue.

Location

KUKO, Conference Center, Kufsteiner Strasse D-83022 Rosenheim (inner city), Germany 50 km from Munich, 70 km from Salzburg www.kuko.de

Rosenheim is a central spot on the way bety Munich and Salzburg and has a lot to offer. You will enjoy your stage in one of the most beautiful towns of Bavaria.



✓ A lot of valuable ideas how to optimize and

and maintenance challenges in your daily

market your products and/or services.

Exhibition for lubricants, maintainance and tribology

During the 2015 OilDoc Conference an daily exhibition is organized. You will find a full range of services and products from international exhibitors.

An excerpt of the exhibitor list (State November 2014):

albers	ALS	Anton Paar	AVISTA OIL	□ = BASF The Chemical Company	BestSens AG	bremer & leguil	9	CMT
Comline	CONOSTAIN*	E	O.O.C-	& Ecol	ExonMobil	Fraunhofer	Hauser	HYDAC
I care	3	Oil Sampling IDE Utvecking AB	INNOSICIS	Intertek	qjc	LAUDA	LGC Standards	△ Metrohm
microtap	Noria	NYNAS	OELCHECK.	OMNITEK	optioil	ORBIS BV	PAMAS	PCS Instruments
PerkinElmer'	SCHIRZE & PARTNER	Composence in Eubricants	STLE	SYNCHRON	TELEDYNE CETAC TECHNOLOGIES	WAllstein		

Get together

- Come together Jazz Party on January 27th
- ✓ Traditional Bavarian evening (Little Oktoberfest) on January 28th

Special recommendation:

Extend your conference journey and go to Munich or Salzburg. Both are really nearby! We advise you how to travel and where to stay.

Registration

Do not miss the Early Bird Discount – participation fee for registration prior September 30th, 2014 is 895,- € + VAT only

Regular participation fee is EUR 995.- + VAT

5% discount with simultaneous application of three or more employees of a company/institute or for members of the ICML or STLE (just enter your member number in the registration form)

For the first time we now offer you 1-day-tickets:

- 1-day-ticket valid on Jan. 28, 2015 = 499.- + VAT
- 1-day-ticket valid on Jan. 27, 2015 = 499.- + VAT 1-day-ticket valid on Jan. 29, 2015 = 399.- + VAT

Exhibition Hours:

08.00 am - 6.30 pmTuesday, January 27th: 08.00 am - 6.00 pm Wednesday, January 28th: 08.00 am - 2.30 pmThursday, January 29th:



Register now at anmeldung.oildoc.de!

Registration fee includes:

- Participation at the presentations
- Access to the exhibition
- Lunch buffet, coffee/tea and snacks during breaks
- ✓ Conference bag, proceedings
- ✓ Bus transfer from selected hotels to the conference center

Come-together Party on Tuesday and Little Oktoberfest on Wednesday (Please note, that a 1-day-ticket entitles you to access the venue and the particular dinner event ONLY on the selected date!)

- Register for the special workshops on January 29th with Jim Fitch (NORIA) and
- Bring your spouse, extend your conference journey and go to Munich, Finally get your CLS-certification and join the CLS Training & Certification Course with Ray Thibault from February 02.-04., 2015

Special add-on workshops on Thursday, January 29th

There's a revolution occurring. Managers who once desired machine reliability now demand it ... This movement has let companies in all industries to take control of reliability by reinventing their lubrication programs. Those who are responding to the challenge are seeing amazing results ... on the bottom line, where it counts most. The change goes beyond simply using better lubricants. The leaders are employing technologies, empowering employees and building ultramodern new practices – creating new and energized reliability culture.

Intelligent Oil Analysis Evaluation and Management

Presenter: Jack Poley, CMI (Condition Monitoring International, LLC) Evaluation technique – what it consists of – how it is affected. Examples of evaluation exercises using automated support and real-world problems.

When and Where Hall 3 in the KU'KO venue, 2.30-6.00 pm

Registration fee: 25,- € + VAT (for each workshop)

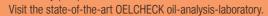
Contact

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More information: www.oildoc-conference.com

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Innsbruck, Salzburg or Italy. We advise you how to travel and where to stay.

All details: www.oildoc-conference.com

Presenter: Jim Fitch, Noria Corporation

Lubrication Excellence Manager's Summit

When and Where? "Cafeteria" in the KU'KO venue, 10.00-13.30 am

Get the new OilDoc App! ((🔲 The OilDoc Conference and Exhibition 2015 is fast approaching. Bet ready by reviewing sessions and saving them to your personal eventmobi.com/oildoc2015

program, a first class speaker line-up, a lot of international networking opportunities and a major international exhibition additional to the conference. **Main Topics Condition Monitoring – Safety to the max** Insights of the latest developments of condition monitoring techniques and oil analysis technology **Lubrication per excellence**

- Fluid Management Getting things done Save money and eliminate production risks with an optimized selection, handling and storage of lubricants
- Let's talk about tribology State of the art of Science and Technology – New aspects to intense discussions

How maintenance experts meet the increasing challenges of lubrication

The OilDoc Conference and Exhibition offers again a high quality





www.oildoc-conference.com

DAY 1 – TUESDAY, JA			
08:30 am – 09:30 am	Plenary Session	LE L'IIII D. L. W. L. OFLOUEON	
00.00 am 00.00 am		nd Exhibition – Peter Weismann, OELCHECK	& Rüdiger Krethe, OilDoc GmbH
	Key Note Speaker DiplIng. Mathias D	rbox fluids – Development trends, challenges	and innovation examples
09:30 am - 10:00 am	Coffee & Snacks	Dovolopinone trondo, originongo	and innovation oxampioo
	Hall 1	Hall 2	Hall 3
10:00 am – 12:00 am	OIL ANALYSIS EVALUATION The data visualization and	ENERGY EFFICIENCY Energy sources for the future –	ENVIRONMENTAL ASPECTS Biolubricants – How to choose the
	infomatics tool box for the	tribological aspects of water and	right ultimate biodegradability test
	in-service fluid analysis world	wind energy plants	method
	James Adams	Prof. DrIng. Wilfried Bartz	Vincent Bouillon
	PerkinElmer Life and Analytical Sciences The data visualization and infoma-	Technische Akademie Esslingen The role that synthetic lubricants	BfB Oil Research S.A. Biodegradation tests: The im-
	tics tools – application examples	have in improving energy efficiency	portance of microbial activity for
	Dr. David L. Wooton	Sandy Reid-Peters	reliable test results
	Wooton-Consulting	ExxonMobile Chemical Ud	Dr. Martin Völtz
	Automated intelligent agents: deli- vering full value to In-Service Fluid	Reducing energy consumption in hydraulics	Water-soluble PAG's – The ONLY 'non-sheening' EAL
	Analysis (ISFA), a.k.a. "Oil Analysis"	Willem ter Stege	Kevin P. Kovanda
	Jack Poley	Exxon Mobil - Esso Nederland B.V.	American Chemical Technologies, Inc.
	CMI Condition Monitoring International		
	Importance of oil cleanliness and impact of sample preparation and	Hydraulic oil – increase of the energy efficiency of industrial plants	Lubricants with re-refined base oils – a bright future?
	methodology	Christoph Baumann	Réne Schwerin
	Steffen Bots	Hermann Mogler Mineralölgroßhandlung	AVISTA OIL Refining & Trading Deutsch
	OELCHECK GmbH	GmbH	land GmbH
12:00 am - 01:30 pm 01:30 pm - 03:00 pm	Lunch CONDITION MONITORING I	TURBINES	TRIBOLOGY I
01.30 pm – 03.00 pm	Determination of a bearings opera-	Quo Vadis – gas turbine oils?	Critical remarks on the coefficient
	ting conditions during the working	Dr. Karin Baumann	friction – temperature diagram
	process by means of BeMoS®	Lukoil Lubricants Austria GmbH	Prof. Dr. Joachim Schulz
	Christoph Brückner BestSens AG		WISURA GmbH
	On-board condition monitoring of	Investigating the feasibility of fill-	Friction measurement of additives I
	marine cylinder oil	for-life turbine oils	SRV and drawing tests
	Dr. Stuart Lunt	Greg Livingstone	Wilhelm Rehbein
	Parker Hannifin Corporation	Fluitec International	Rhein Chemie Rheinau GmbH
	In-line multi-parameter oil condition monitoring system for	A new generation turbine fluids – high-performance bio lubricants	A new approach to characterize start-stop motions
	bio-gas operated stationary engines	Prof. Dr. Thomas Norrby	Frederik Wolf
	Christoph Schneidhofer	Nynas AB	Anton Paar Germany GmbH
00.00	AC2T research GmbH		
03:00 pm - 03:30 pm 03.30 pm - 05:30 pm	Coffee & Snacks OIL ANALYSIS METHODS I	WIND TURBINES	TRIBOLOGY II by TAE
03.30 pm = 03.30 pm	Review of different methods for oxida-	Detection of a mixture of different oil	Tribological in-site evaluation of
	tion products quantification in-service	types in gearboxes of wind turbines	lubricated contacts of real-life
	lubricant oils using Fourier Transform	Andy Böhme	engineering materials
	Infrared (FT-IR) Spectrometry Yesid Antonio Gómez	OELCHECK GmbH	Prof. Dr. mont. Florian Grün Montanuniversität Leoben
	Fundacion Tekniker		Workandinversität Leoberi
	Prediction of high base reserves by	Lubrication and criteria for	Visualization of lubricant distribu-
	FTIR spectroscopy used for marine cylinder oils	lubricants of gearboxes for windturbines	tions by means of neutron imaging as a non-destructive test method
	Alexander Grafl	DrIng. Frank-Dieter Krull	Dr. Christian Grünzweig
	AC2T research GmbH	Eickhoff Antriebstechnik GmbH	Neutron Imaging and Activation
	A study regarding variation in	Oil sensors test bench – an approach	Chlorinated additives – an often
	oxidation inhibition of base oils	to validate oil condition monitoring	misinterpreted type of additives
	Jonathan Evans	systems for wind turbine applications Diego Alejandro Coronado Guzman	Prof. Dr. Joachim Schulz WISURA GmbH
	SAVANT Inc	· Simulation of Continuor Guerrian	THE OTHER METERS
	SAVANT, Inc	Fraunhofer Institut	
	RPVOT pressure drop signatures	Fraunhofer Institut Classification of wear particles in	Novel liquid crystal fluids as for-lif
	RPVOT pressure drop signatures Andrew Sitton	Fraunhofer Institut Classification of wear particles in wind power main bearing	Novel liquid crystal fluids as for-lif lubricants in micromechanical
	RPVOT pressure drop signatures	Fraunhofer Institut Classification of wear particles in	Novel liquid crystal fluids as for-lif

DAY	2 – WEDNESDAY, JAN. 28 TH , 2015			
	Hall 1	Hall 2	Hall 3	Hall 4 *
	ONSITE ANALYSIS	GEARS	LUBRICANTS – Health & Legislative	VARNISH & VARNISH REMOVAL
am – 10:00 am	Smart solutions for on-site oil analysis – Experiences in viscosity measurements of in-service oils Dr. Franz Novotny-Farkas Lukoil Lubricants Austria GmbH	Temperature reduction using PD additives Michael Möller BP Europa SE	European legislative process for chemicals and its meaning for the lubricant market Dr. Stephan Baumgärtel VSI - Verband Schmierstoff-Industrie e.V.	N.N. Rüdiger Krethe OilDoc GmbH
08:30 am	New portable FTIR-spectrometer for on-site oil condition monito- ring Niklas Christensson eralytics GmbH	The effects of base oil exchange in a PAO based gear oil Kirsten Schwörer BP Europa SE	The history and future of food processing lubricants Tyler Housel Inolex Chemical	How to reach safe operation of turbo compressors? Hydrodynamic cleaning and turbulent oil flushing of oil systems Tomás Klíma ECOL Sp. z o.o.
	Sub-micron particle contamination in non-aqueous hydraulic fluids and their effect on system and fluid perfor- mance Dr. George Staniewski OPG Ontario Power Generation	Simulation modelling and FZG experiments on the temperature increase for gear box of high-speed railway Dr. Xiangjun Zhang Tsinghua University	High temperature chain oil lubri- cation in the food industry and related industries with H1-registered lubricants Manfred Plötz Bremer & Leguil GmbH	Removal of deposits in hydraulic and lubricating systems – A new concept compared to state of the art methods Hendrik Karl Fuchs Europe Schmierstoffe GmbH
10:0	0 am - 10:30 am - Coffee & Snacks			·
10:30 am – 12:00 am	PARTICLE COUNTING Online particle counting as CBM tool – huge savings are waiting to be picked Steffen D. Nyman C.C. Jensen A/S	METAL WORKING FLUIDS The use of multifunctional lubricants along the value chain of metalworking processes – a pathway for sustainability Dr. Jens Ostrowski Carl Bechem GmbH	Performance of Novel Organic Polymeric Friction Modifiers on DLC coatings Aitziber Viadas Croda Europe Ltd.	GLOBAL DEVELOPMENTS First results of a new global oil and lubricants proficiency testing scheme Dr. Julian Schwarz LGC Standards GmbH
10:3	How additives affect new oil cleanliness John Sander Lubrication Engineers Inc.	European trends in metalworking fluid – influenced by new material and specific legislation Carmen Freiler Fuchs Europe Schmierstoffe GmbH	Research the wear resistance of Ti/ TiN/TiCN/nc-TiCN:a-c/ncTiC:a-c/a-c nanocomposite coating on 1.2343 steel Prof. DrIng. Georgi Mishev University of food technologies (UFT)	China and the road to lubricant efficiency Paul Turner OLM Group China
	Performing particle counting on opaque and heavily contaminated samples Bill Jr. Quesnel CINRG Systems Inc.	Wax based corrosion protection – substitution of solvent with water Rüdiger Schiffer OKS Spezialschmierstoffe GmbH	Development of new reactive white solid lubricant pastes for preventing fretting wear Simon Weber Westsächsische Hochschule Zwickau	Wi-care wireless spectral vibration sensor Fabrice Brion I-Care sprl
12:0	0 am - 01:30 pm - Lunch OIL ANALYSIS METHODS II	SPECIAL APPLICATIONS	GWP	LUBRICANTS
nd 00:00 - md	New ASTM standard for the determination of the ipH-value Dr. Thomas Fischer OELCHECK GmbH	Fire-resistant hydraulic fluids – the rest of the story, the toxic combustion by-products Rudolf M.H. Schulze Schulze & Partner ACT Europe	Surface analysis: Probing the solid/liquid interface Dr. Birgit Hagenhoff tascon GmbH Analytical Services and Consulting	Industrial gear oils – an example of how to supply chain considerations trigger new technical developments Dr. René Koschabek Evonik Industries AG
01:30 pm	Determination of the water content in lubrication oils, greases and polyol-based hydraulic oils Dr. Christian Haider Metrohm AG Tribological pointers for the early	Greases evaluation in plastic- metal contact Jiri Valdauf LUBRICANT s.r.o. Standardised fuels and lubricants	Particle-check: Isolation & identi- fication of single particles Dr. Julius A. Nickl GWP Gesellschaft für Werkstoffprü- fung mbH Gears and bearings in wind	Antioxidants monitoring as part of lubricant diagnostics – Part I Jo Ameye FLUITEC N.V. Antioxidants monitoring as part
	detection and diagnosis of lubrication starvation, overloading or misalignment Dr. Violet Leavers V4L Group	for military applications Johannes Bader Wehrwissenschaftliches Institut	turbines – recognized damage patterns Dr. Thomas Griggel Allianz Global Corporate & Specialty AG	of lubricant diagnostics – Case Studies – Part II Greg Livingstone Fluitec International
03:0	0 pm – 03:30 pm – Coffee & Snacks			
) pm - 04:30 pm	OIL ANALYSIS METHODS III A state-of-the-art colorimetric patch analyses of turbine oils Norbert Becker N. Becker Ingenieurbüro + Vertrieb	ENGINES Development of next generation heavy-duty engine oils for improved fuel economy Ruud ter Rele Chevron Oronite Technology B.V.	CUBRICATION & MAINTENANCE Oil re-circulating lubrication systems for industrial applications Hans-Georg Weber SKF Lubrication Systems Germany AG	* sorry, no simultanous translation available in hall 4
03:30 pm	A method for controlled oxidation of lube and hydraulic oils and investigation of the effects on oil parameters Morten Henneberg C.C. Jensen A/S	Engine oil change intervals in China Andrew Zeng OELCHECK China Ltd.	Deairation in combination with optimized reservoir design Marco van Boven Parker Hannifin GmbH&Co.KG	

	, JAN. 28 RD , 2015		
	Hall 1	Hall 2	Hall 3
04:30 pm - 05:30 pm	OIL ANALYSIS METHODS III	ENGINES	LUBRICATION & MAINTENANCE
	Getting to the root of wear –	Effects of fuel dilution on today's	Reservoir optimisation of the future
	combining particle imaging and	engine oils	Andreas Busch
		o a constant of the constant o	
	quantitative debris analysis	Jonathan Rudnicki	HYDAC Filter Systems GmbH
	Dr. Patrick F. Henning	Analysts, Inc.	
	Spectro Scientific		
	Ultra Fast GC	Tribology of CAM – Rolling and flat	Mechanical services & coatings onsit
	Dennis Hoogendonk	face follower mechanism	Uwe Lehr
	OmniTek B.V.	Saleh Akbarzadeh	Voith Paper GmbH&Co.KG
		Isfahan University of Technology	·
		lotarian criticists of footinology	
DAY 3 – THURSDAY, J	IAN 20 TH 2015		
DAI 3 – IIIUNSDAI, 3	Hall 1	Hall 2	Hall 3
08:30 am – 11:00 am	CONDITION MONITORING II	LUBRICATION MANAGEMENT	BASE OILS
J8:30 am – 11:00 am			
	Using vibration analysis to detect	Visy Paper: Back to basic, forward	High temperature resistant
	ineffective lubrication	to world-class lubrication	silicone fluids with enhanced lubri-
	Matthias Winkler	Suzy Hitchcock	city characteristics
		*	
	CM Technologies GmbH	ICML	Aleksandra Nevskaya
			Dow Corning GmbH
	GearControl – The smart gearbox	Novel approach to using failure	PAG Based Lubricants –
	Michael Stroi, Edwin Kimpl	modes and criticality to optimize	Present and new possible areas of
	Eisenbeiss GmbH	the design of lubricant and machine	application
	<u> </u>		
		condition monitoring programs	Michael Markschläger
		James C. Fitch	PHI OIL GmbH
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	luca cas of the house	Noria Corporation	Lubalantian a f
	Iron – one of the key wear indicators	Implementing a best-practice	Lubrication performance of
	for used oil analysis	lubrication program	Pyrrolidinium BMB ionic liquids
	Dr. Frank Bernier	Bennett Fitch	Prof. Dr. Sergei Glavatskih
	CM Technologies GmbH	Noria Corporation	KTH Royal Institute of Technology
	Immediate detection of damages on	Future trends in tribology and	Water-based viscous lubricants –
	engine and transmission test stands	lubrication engineering	a modern, sustainable and tech-
	by online particulate measurement	Dr. Robert M. Gresham	nically advanced replacement for
			-
	Prof. DrIng. Peter Martin	STLE	non-water soluble lubricants
	Innosiris GmbH		Heinz Dwuletzki
			Carl Bechem GmbH
	Condition monitoring at gears and	Intelligent lubrication management	Conductive lubricants for functiona
	the power train	software	tribo-systems
	Achim Oebel		_
	7.00	Mouad Chemaou	Dr. Andreas Kailer
	Multigear GmbH	PROCEDYS	Fraunhofer-Institut für Werkstoffmechan
11:00 am - 11:30 am	Coffee & Snacks		
11:30 am - 01:30 pm	OIL CONDITION MONITORING III	GREASES	TRIBOTESTING
	Importance of oil analysis in the	Synthetic complex Lithium grease	Using tribology test equipment to
	condition monitoring program of	for increased steel rolling mills	help improve fuel economy -
	slow speed machinery	productivity & reliability	a review
	I SIOW SPECU IIIAUIIIICI Y	productivity & reliability	
		Malara a al	
	Elmar Steffens	Mahmoud A. Abdel Shafy	Dr. Rich Baker
			Dr. Rich Baker PCS Instruments
	Elmar Steffens I-Care Deutschland GmbH	ExxonMobil Egypt (S.A.E.)	PCS Instruments
	Elmar Steffens I-Care Deutschland GmbH Electron spin resonance spectra of	ExxonMobil Egypt (S.A.E.) Low temperature behaviour of lubri-	PCS Instruments Advantages of in-house testing faci
	Elmar Steffens I-Care Deutschland GmbH Electron spin resonance spectra of Butylated Hydroxytoluene (BHT) as	ExxonMobil Egypt (S.A.E.) Low temperature behaviour of lubricating greases based on mineral oils	PCS Instruments Advantages of in-house testing facilities for the development of high-
	Elmar Steffens I-Care Deutschland GmbH Electron spin resonance spectra of	ExxonMobil Egypt (S.A.E.) Low temperature behaviour of lubri-	PCS Instruments Advantages of in-house testing faci
	Elmar Steffens I-Care Deutschland GmbH Electron spin resonance spectra of Butylated Hydroxytoluene (BHT) as evidence of free radical formation in	ExxonMobil Egypt (S.A.E.) Low temperature behaviour of lubricating greases based on mineral oils with different refining degree	PCS Instruments Advantages of in-house testing facilities for the development of high-performance lubricants
	Elmar Steffens I-Care Deutschland GmbH Electron spin resonance spectra of Butylated Hydroxytoluene (BHT) as evidence of free radical formation in Electrostatic Discharge (ESD) dama-	ExxonMobil Egypt (S.A.E.) Low temperature behaviour of lubricating greases based on mineral oils with different refining degree Luis Bastardo-Zambrano	PCS Instruments Advantages of in-house testing facilities for the development of high-performance lubricants Christian Retschke
	Elmar Steffens I-Care Deutschland GmbH Electron spin resonance spectra of Butylated Hydroxytoluene (BHT) as evidence of free radical formation in Electrostatic Discharge (ESD) damaged lubricating oils	ExxonMobil Egypt (S.A.E.) Low temperature behaviour of lubricating greases based on mineral oils with different refining degree	PCS Instruments Advantages of in-house testing facilities for the development of high-performance lubricants
	Elmar Steffens I-Care Deutschland GmbH Electron spin resonance spectra of Butylated Hydroxytoluene (BHT) as evidence of free radical formation in Electrostatic Discharge (ESD) dama-	ExxonMobil Egypt (S.A.E.) Low temperature behaviour of lubricating greases based on mineral oils with different refining degree Luis Bastardo-Zambrano	PCS Instruments Advantages of in-house testing facilities for the development of high-performance lubricants Christian Retschke
	Elmar Steffens I-Care Deutschland GmbH Electron spin resonance spectra of Butylated Hydroxytoluene (BHT) as evidence of free radical formation in Electrostatic Discharge (ESD) damaged lubricating oils Dr. John K. Duchowski	ExxonMobil Egypt (S.A.E.) Low temperature behaviour of lubricating greases based on mineral oils with different refining degree Luis Bastardo-Zambrano	PCS Instruments Advantages of in-house testing facilities for the development of high-performance lubricants Christian Retschke
	Elmar Steffens I-Care Deutschland GmbH Electron spin resonance spectra of Butylated Hydroxytoluene (BHT) as evidence of free radical formation in Electrostatic Discharge (ESD) damaged lubricating oils Dr. John K. Duchowski HYDAC FluidCareCenter GmbH	ExxonMobil Egypt (S.A.E.) Low temperature behaviour of lubricating greases based on mineral oils with different refining degree Luis Bastardo-Zambrano Nynasab	PCS Instruments Advantages of in-house testing facilities for the development of high-performance lubricants Christian Retschke Addinol Lube Oil GmbH
	Elmar Steffens I-Care Deutschland GmbH Electron spin resonance spectra of Butylated Hydroxytoluene (BHT) as evidence of free radical formation in Electrostatic Discharge (ESD) damaged lubricating oils Dr. John K. Duchowski HYDAC FluidCareCenter GmbH Micro-ESR: In-site measurement of	ExxonMobil Egypt (S.A.E.) Low temperature behaviour of lubricating greases based on mineral oils with different refining degree Luis Bastardo-Zambrano Nynasab Sampling methods outlined in the	PCS Instruments Advantages of in-house testing facilities for the development of high-performance lubricants Christian Retschke Addinol Lube Oil GmbH The TTT Tapping-Torque-Testsystem
	Elmar Steffens I-Care Deutschland GmbH Electron spin resonance spectra of Butylated Hydroxytoluene (BHT) as evidence of free radical formation in Electrostatic Discharge (ESD) damaged lubricating oils Dr. John K. Duchowski HYDAC FluidCareCenter GmbH	ExxonMobil Egypt (S.A.E.) Low temperature behaviour of lubricating greases based on mineral oils with different refining degree Luis Bastardo-Zambrano Nynasab	PCS Instruments Advantages of in-house testing facilities for the development of high-performance lubricants Christian Retschke Addinol Lube Oil GmbH
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	Elmar Steffens I-Care Deutschland GmbH Electron spin resonance spectra of Butylated Hydroxytoluene (BHT) as evidence of free radical formation in Electrostatic Discharge (ESD) damaged lubricating oils Dr. John K. Duchowski HYDAC FluidCareCenter GmbH Micro-ESR: In-site measurement of oil condition using miniature electron spin resonance spectroscopy James White	ExxonMobil Egypt (S.A.E.) Low temperature behaviour of lubricating greases based on mineral oils with different refining degree Luis Bastardo-Zambrano Nynasab Sampling methods outlined in the American Society for Testing and Materials (ASTM) standard D7718 Richard N. Wurzbach	PCS Instruments Advantages of in-house testing facilities for the development of high-performance lubricants Christian Retschke Addinol Lube Oil GmbH The TTT Tapping-Torque-Testsystem for the determination and interpretation of evaluation-parameters of tribological effects of substances, in
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