14th INTERNATIONAL SYMPOSIUM ON FUELS AND LUBRICANTS

MARCH 20-22, 2025

THEME

FUELS & LUBRICANTS TOWARDS SUSTAINABLE ENERGY TRANSITION

Organized by

IndianOil R&D The Power of Possibilities

Under the aegis of

ISFL SOCIETY

SOUVENIR

ISFL 2025: Program at a Glance

March 20, 2025 (Thursday)			March 21, 2025 (Friday)			March 22, 2025 (Saturday)		
Registration (0800 hrs onwards) Tea (0800-0945 hrs)			**Plenary Session - II** (0900-1030 hrs)			**Technical Session – V** (0900-1015 hrs)		
Inauguration Symposium, Exhibition & Posters (0945-1100 hrs)						**TS VA**	**TS VB**	**TS VC**
						EV Fluids	Fuel-Agnostic Engines & lubricants	Advances in Greases
Hi-Tea			**Hi-Tea**			**Tea**		
Plenary Session - I (1130-1300 hrs)			**Panel Discussion- II** (1045-1215 hrs)			**Business Talk** (1030-1130 hrs)		
						Energy Quiz (1130 -1230hrs)		
Lunch			**Plenary Session - III** (1215-1345 hrs)			**Award Ceremony** (1230-1300 hrs)		
Panel Discussion-I (1345-1515 hrs)								
Tea			**Lunch**			**Lunch**		
Technical Session – I (1545-1715 hrs)			**Technical Session – III** (1430-1600 hrs)					
TS IA	**TS IB**	**TS IC**	**TS IIIA**	**TS IIIB**	**TS IIIC**			
Sustainable Lubricants	Sustainable Fuels	New-Age Lubes for Industries	Coolants for EVs & Data Centers	Bio-Lubricants	MWO & Industrial Lubricants			
Tea			**Tea**					
Technical Session – II (1730-1900 hrs)			**Technical Session – IV** (1615-1745 hrs)					
TS IIA	**TS IIB**	**TS IIC**	**TS IVA**	**TS IVB**	**TS IVC**			
Fuel-Efficient Lubricants	AI in Fuels & Lubricants	Circular Economy	Base Oil & New Techniques	New Energy	Specialty Products for Refineries			
e-Poster Session – I (1230 – 1600 hrs)			**e-Poster Session – III** (1230 – 1600 hrs)					
e-Poster Session – II (1600 – 1900 hrs)								
Networking Dinner (1900 – 2100 hrs)			**Cultural Program & Conference Dinner** (1930 – 2200 hrs)					

Venues of different Sessions	
Tango-I Hall	Technical Sessions-I-A, II-A, III-A, IV-A and V-A
Tango-II Hall	Technical Sessions-I-B, II-B, III-B, IV-B and V-B
Tango-III Hall	Technical Sessions-I-C, II-C, III-C, IV-C and V-C
Debate Hall	All e-Posters Sessions
Main Hall (Tango)	All other sessions

CONTENTS

National Steering Committee of ISFL 2025

Patron	Sh. A. S. Sahney, Chairman, IndianOil
Chairman	Dr. Alok Sharma, Director (R&D), IndianOil
Convener	Sh. Mukul Maheshwari, ED (LT), IndianOil R&D
Organizing Secretary	Dr. Ajay Kumar Arora, CGM (LT & FA), IndianOil R&D

Members	
Sh. V. Satish Kumar, Director (Marketing), IndianOil	Sh. P. K. Banerjee, ED, SIAM
Sh. N. Senthil Kumar, Director (PL), IndianOil	Dr. Reji Mathai, Director, ARAI
Ms. Rashmi Govil, Director (HR), IndianOil	Sh. Krishnan Sadagopan, Sr. VP, Ashok Leyland
Sh. Arvind Kumar, Director (R), IndianOil	Sh. Subhakar Sen, Business Head (Lubes), BPCL
Dr. Umish Srivastva, ED (TPF), IOC R&D	Sh. Rajendra Petkar, President & CTO, Tata Motors
Dr. Alex C. Pulikottil, ED (PC & CAT), IOC R&D	Sh. C. V. Raman, CTO, MSIL
Sh. Bankim Patra, ED (Lubes), IOC (M)	Sh. Venkatesh R, MD, Wartsila India
Sh. D. L. N. Sastri, Dir, FIPI	Sh. Srinivas Ch. ED (Lubes), HPCL
Sh. Srinivasan Venkatragavan, Country Head, Afton	Sh. Ramaprabhu R, Mahindra & Mahindra
Sh. Nitin Mengi, Chairman & Managing Director, LIPL	Sh. Alok Kumar, Sr. GM, CIT, Hero MotoCorp
Sh. Saravanan Alagarsamy Chandrasekar, IAL	Sh. R M Uthayaraja, Director (MB), Balmer Lawrie
Sh. Harshad Jambaulikar, GM, Infineum India Pvt. Ltd.	Sh. Anil Choudhary, VP, BASF India

Core Committee	Secretariat Committee	Key Committees
Mr. Mukul Maheshwari, ED (LT)		
Dr. Ajay Arora, CGM (LT &FA)	Dr. Kavita Rai, DGM (IL)	Technical Committee: Dr. S. Paul, CGM (LT- Industrial)
Dr. S. Paul, CGM (LT- Industrial)	Dr. P. Sakthivel, CRM & CEA to D(R&D)	Purchase Committee: Mr. A. K. Jha, CGM (HR)
Mr. Abhijeet Sen Roy, GM (TS), HO	Dr. Ratnadeep Joshi, SRM (AO)	PCO & Venue Committee: Dr. Naveen Pokhriyal, GM (LT &FA)
Dr. M. Sithananthan, GM (AR)	Dr. Tanmay Mandal, SRM (F&A)	Session Management: Committee: Dr. Kavita Rai, DGM (IL)

IMPORTANT CONTACT NUMBERS			
Mr. Mukul Maheshwari	9810921288	Dr. Kavita Rai	9899549965
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Mr. Deepak Taneja	9999693621	Mr. Satish Kumar	9990106534

Message from

Additional Secretary, MoPNG, Government of India

Praveen M. Khanooja,
Additional Secretary

सत्यमेव जयते

भारत सरकार
पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय
शास्त्री भवन, नई दिल्ली - 110 001
Government of India
Ministry of Petroleum and Natural Gas
Shastri Bhawan, New Delhi - 110 001

MESSAGE

India is committed to achieve the status of a developed nation by 2047. This will fuel extraordinary energy demand which poses challenge of rising global temperatures and climate risks. However, India also stands firm on its resolve to achieve net zero by 2070.

India has focussed on a multipronged strategy to transition towards a sustainable energy future where apart from renewables, we are making significant progress on greening the fossil fuels through blending with biofuels. Among the biofuels, the ethanol continues to be a very progressive story with average blending currently nearing 20%. Riding on the ethanol success, the country is resolving for Biodiesel, CBG and SAF targets.

In addition to biofuels, India has announced NDCs for 2030 aiming reduction in emission intensity of GDP by 45% from 2005 levels through achieving 50% electric power capacity from non-fossil fuel sources, creating an additional carbon sink of 2.5 to 3 billion tons of CO_2equivalent through forest and tree cover, enhancing investments in climate-vulnerable sectors and promoting sustainable lifestyles under the "LIFE" initiative. These NDCs are being followed up through key initiatives such as the National Green Hydrogen Mission, PM-KUSUM, PM Surya Ghar: Muft Bijli Yojana, National Biomass Program, and various production-linked incentive schemes.

I am happy to note that the 14th edition of the International Symposium on Fuels and Lubricants (ISFL 2025) is being organized by ISFL Society with the theme of "**Fuels & Lubricants towards Sustainable Energy Transition**". The symposium has special emphasis on energy efficient lubricants as lubricants can help gain significant energy efficiency which is considered a crucial "first fuel" in clean energy ecosystem. I am confident that the researchers, technocrats, policy makers from across the World, will discuss the future energy requirements and technology advancements leading to sustainable energy ecosystem.

I understand that the ISFL symposium which is conducted once in two years,provides a platform for sharing the knowledge and latest developments in the area of fuels and lubricants with an aim towards reducing the carbon footprint.

My compliments to ISFL for energising the fuel and lubricant sectors for last 27 years with effective engagement in terms of knowledge dissemination catering to different sectors like automotive and industry including Steel, Cement, Railways, Renewable, Power etc.Also, my best wishes for yet on other path-breaking deliberations at ISFL - 2025.

18/03/2025

Place: New Delhi
Date: March 18, 2025

(Praveen M. Khanooja)

Message from

Chairman, IndianOil, Patron, NSC, ISFL 2025

The **14th edition of the International Symposium on Fuels and Lubricants (ISFL)**, being held at New Delhi on March 20-22, 2025 is themed around **"Fuels & Lubricants towards Sustainable Energy Transition"**, that aptly reflects the increasing green consciousness of the fuels and lubricants sector. Given the industry's transitional state, this theme will accelerate innovative deliberations on Sustainable & Futuristic Fuels for Transportation and newer developments in additives for fuels and lubricants, Advanced Sustainable Lubricants and Fuels, Trends in Automotive Lubricants, Circular Economy in Lubricant Industry, Renewable and Alternative Energy Sources, Upcoming Trends in Industrial Lubricants.

For over two decades, the ISFL has stood as a premier forum, fostering collaboration, innovation, and progress in the fuels and lubricants sector. With each edition, it has grown in stature, becoming a vibrant platform where industry leaders, research pioneers, and policymakers come together to deliberate and chart the course for the future. It effectively showcases the substantial advancements achieved in this sector, thereby demonstrating India's commitment to excellence and progress to a global audience.

As has been done on earlier occasions, it is expected that during the Symposium this year too, participants will engage in discussions that will shape future strategies and policies, reflecting a shared commitment to progress and excellence in respective domains.

While extending best wishes for success of the event, it is hoped that ISFL 2025 will be a vibrant forum for industry, academia and thought leaders to share knowledge and have meaningful discussions on innovative practices in the field of fuels and lubricants aimed towards a sustainable future.

Date: 18th March, 2025
Place: New Delhi

(A S Sahney)
Chairman, IndianOil
Patron, National Steering Committee, ISFL 2025

Message from

Director(R&D), IndianOil; Chairman, NSC, ISFL 2025

"If everyone is moving forward together, then success takes care of itself."

Henry Ford, American industrialist and founder of the Ford Motor Company.

I am delighted to be a part of ISFL 2025 – the **14th International Symposium of Fuels & Lubricants 2025** being organized by IndianOil R&D under the aegis of ISFL Society. The symposium is being organized at **Hotel Vivanta by Taj, Surajkund, Delhi NCR during March 20-22, 2025**. It's a matter of great pride for all of us that this conference has evolved into one of the most sought-after biennial events in the downstream hydrocarbon sector since its launch in 1997.

This edition of the ISFL symposium is based on the theme **"Fuels & Lubricants towards Sustainable Energy Transition"** is going to bring forth innovative solutions to develop the eco-system for energy-efficient and low carbon mobility. The automotive industry is currently undergoing a transformative shift, characterized by rapid advancements. Key trends such as trends of electrification, autonomous vehicles, use of artificial intelligence, integration of connected vehicles, and sustainability are employing unprecedented pressure on manufacturers to innovate and adapts. This evolution not only reflects changing consumer preferences but also addresses pressing environmental concerns, thereby redefining the future landscape of transportation. As these dynamics continue to unfold, the industry's agility in embracing these changes will be critical for sustained competitiveness and sustainability. Further, biofuels like ethanol, CBG, LNG, hydrogen and e-mobility are being actively pursued by auto companies for decarbonization. I am delighted to share that the representation of Indian OEMs and other Industry partners in ISFL 2025 will highlight and enable oil companies to dispense the form of energy that the customers would require in near future.

Innovative advancements in this field are paramount for transitioning to a low-carbon economy. States and corporations can connect these new technologies to improve energy efficiency, reduce emissions, and promote the use of renewable resources. By facilitating dialogue and cooperation, ISFL 2025 seeks to ignite actionable solutions that will shape the future of fuels and lubricants, ultimately reducing the impact of energy production and consumption on the environment.

I extend my sincere greetings and best wishes for the successful organization of ISFL 2025. I am confident that the infusion of new ideas, along with the discussions and deliberations during the conference, will significantly contribute to advancing the fuels and lubricants sector, fostering a new era of innovation and progress.

Date: 10th March, 2025
Place: Faridabad

(Dr. Alok Sharma)
Chairman, NSC, ISFL 2025

Message from

ED(LT), IndianOil, Convener, ISFL 2025

As Convener of ISFL 2025, I welcome all the delegates to the **14th edition of the International Symposium on Fuels and Lubricants (ISFL 2025)** being organized during **March 20-22, 2025** on the theme **"Fuels & Lubricants towards Sustainable Energy Transition"**. This biennial event is organized by IndianOil R&D, under the aegis of ISFL Society.

On behalf of the National Steering Committee and my own behalf, I extend a very warm welcome to all the distinguished delegates, exhibitors, sponsors, and speakers who are participating in this event. True to its stature, 14th edition is slated to have more than 145 technical papers to be presented in three parallel sessions over next three days on varying aspects of sustainable fuels & lubricants, artificial intelligence, alternative energy, hydrogen, e-mobility etc. About 35 overseas delegates are expected to participate in the deliberations besides Indian delegates. The symposium will be enriched by three plenary sessions devoted to fuels, lubricants, & e-mobility and two panel discussions covering contemporary topics on fuels and lubricants.

ISFL 2025 will be an opportunity of sharing expertise and views with renowned speakers from all over the world and I am sure that the participants of the symposium will be benefited and enriched with new technical inputs in their specific domains and also cherish out hospitality.

It is the privileged duty of ISFL 2025 organizing team to make your stay comfortable at Surajkund and soak you in 'trade-mark' Indian hospitality. Once again, I welcome all delegates to Surajkund and wish symposium a thriving success.

With Best Wishes,

Maheshwari

Date: 10th March, 2025
Place: Faridabad

(Mukul Maheshwari)
Convener, ISFL 2025 &
ED (LT), IndianOil R&D

Message from

CGM(LT&FA), IndianOil, Organizing Secretary, ISFL 2025

As Organizing Secretary of ISFL-2025, I welcome all the delegates to ISFL-2025 symposium organized by IndianOil R&D Centre under the aegis of ISFL Society. The symposium is being organized at **Hotel Vivanta by Taj, Surajkund, Delhi NCR during March 20-22, 2025** with theme **"Fuels & Lubricants towards Sustainable Energy Transition."**

ISFL symposium provides a platform for sharing the knowledge on latest developments in the area of Fuels, Lubricants, Additives, Refining, E-mobility, Hydrogen, Alternative Energy, Biofuels, Emission etc. by the academia / industry through participation from all over the world. Considering the importance of Artificial intelligence in the energy domain, a special technical session on Artificial intelligence has been included in ISFL-2025. We have received overwhelming technical and financial support from oil companies, additive manufacturers, equipment suppliers etc. I thank all the delegates, authors, sponsors & exhibitors for their support and cooperation. I am sure that the participants of the symposium will be benefited and enriched with new technical inputs in their specific domains.

With Best Wishes,

Ajay Kumar Arora

Date: 10th March, 2025
Place: Faridabad

(Dr. Ajay Kumar Arora)
Organizing Secretary, ISFL-2025 &
CGM (LT & FA), IndianOil R&D

ISFL 2025 Program
March 20, 2025 (Thursday) – Schedule

Inaugural Session (0945-1100 hrs) Venue: Main Tango Hall		
0945-0950 hrs	Invocation	
0950-1000 hrs	ISFL Journey - Movie Clip	
1000-1010 hrs	Welcome Address and Introduction of ISFL 2025	**Dr. Alok Sharma** Chairman, NSC, ISFL 2025 & Director(R&D), IndianOil
1010-1020 hrs	Keynote Address	**Mr. Chris Locke** Executive Vice President - Commercial, Infineum
1020-1030 hrs	Keynote Address	**Mr. Mark Davies** Senior Director R&D - LZA Strategic Technology, Lubrizol UK
1030-1050 hrs	Release of ISFL 2025 Souvenir, Inaugural Address by Chief Guest	Inauguration by **Chief Guest**
1050-1100 hrs	Vote of Thanks	**Mr. Mukul Maheshwari** Convener, ISFL 2025
1100-1105 hrs	Inauguration of Technical Exhibition	Inauguration by **Chief Guest**
1105-1115 hrs	Inauguration of e-Poster Session	**Dr. Alok Sharma** Chairman, NSC, ISFL 2025 & Director(R&D), IndianOil

Hi-Tea

Plenary Session-I (1130-1300 hrs) Lubricants towards Sustainable Energy Transition (Venue: Main Tango Hall)	
Mr. Avinash Kamuni Technology Development Manager (Engine Oil) - IMEA, Lubrizol	Development of API SQ and ILSAC GF-7 Products with a Focus on Sustainable Lubricant Solutions
Mr. John Hong Asia Pacific Director - Sales, Infineum	Adding Value in the Lubricant Industry
Mr. Padmanabhan Rajagopalan APR Product Line Manager, Chevron - Oronite Pte Ltd.	Lubricants for Biofuel Powered Engines
Dr. Rhishikesh V. Gokhale Global Technology Manager (Additives), Evonik Oil Additives	Boost Efficiency and Cut Emissions - Improve Fuel Economy in Three Steps with Advanced Engine Oils

Lunch

Panel Discussion-I (1345-1515 hrs) Transforming Energy Landscape for Mobility (Venue: Main Tango Hall)	
Mr. Tarun Aggarwal Excecutive Officer & Head Engineering - R&D, MSIL	Sustainable Energy Transition in passenger car segment
Mr. Sachin Agarwal Executive Vice President & Head of Technology, VECV	Opportunities & Challenges in Energy Transition for Heavy duty vehicles
Mr. Nitin Mengi CMD, LIPL & VP, IMEA, Lubrizol	Energy Transition: Implications and Opportunities for the Lubricant and Fuel Value Chain
Mr. Sachin Wagh Director, FEV, India	Hybrid Vehicle, Opportunities, Challenges and Viability
Mr. Ramaprabhu Head, Fluid Technology, Mahindra & Mahindra	Auto OEMs perspective on fuels and lubricant solutions for Energy Transitions

Tea

March 20, 2025 (Thursday)

Technical Session-I (1545-1715 hrs)

Paper ID	TS IA - Sustainable Lubricants (Venue: Tango-I)
282	Using Commercial & Experimental Methods to Reduce Friction and Wear in Low Viscosity Oils **Mr. David Boudreau**, Vanderbilt Chemicals, LLC
333	Understanding Future Requirements – Delivering Fuel Economy **Dr. Daniel Grundy**, Infineum India Additives Pvt. Ltd.
302	Lubricants as enabler to Sustainable Energy **Mr. Kailash Sawant**, Lubrizol India Pvt. Ltd.
256	Development of Low Viscosity Fuel Efficient API FA-4 SAE 5W-30 Engine Oil for Commercial Vehicles **Mr. Samsher Singh**, Tata Motors
324	Designing an Optimized Crankcase Oil for Clean Fueled Engines **Mr. Vandan Sharma**, Afton Chemical

Paper ID	TS IB - Sustainable Fuels (Venue: Tango-II)
228	Beyond PFI: Advanced Additives for Superior Performance and GDI Clean-Up **Mr. Anindam Baitalik**, Dorf Ketal Chemicals India Limited
248	Outlook and Challenges of Adopting Futuristic Fuels in the Asian Region **Ms. Casey Tan**, Stratas Advisors
309	Emerging Testing Requirement with Emphasis on Oxygenated & H2 Fuel in Accordance with Emerging Technology for Futuristic Legislative Regimes **Dr. Prashant Kumar**, Indian Oil Corporation (R&D)
254	Performance Evaluation of ED5 Diesel in Farm Tractors: A Sustainable alternative **Mr. Tejas Bhabhale and Arjun G Singh Tuteja**, ITL & IOCL
235	Evaluating Catalytic Converter Efficiency for Unregulated Emissions with Higher Ethanol Blends in BS6 Engines **Mr. Raviteja S.**, HPCL Green R&D Centre, Bengaluru

Paper ID	TS IC - New-Age Lubes for Industries (Venue: Tango-III)
319	Formulating for an increasingly complex Industrial Gear landscape **Mr. Chris Pether**, Afton Chemical
215	Novel Solvency Booster for effective Mitigation of Varnish and Deposits **Dr. David Eckes**, Evonik
286	Green Shield: A Sustainable Multipurpose Lubricant Spray for Protection and Performance **Mr. Vaibhav Salunkhe**, Veedol Corporation Limited
233	Development and Evaluation of High Temperature Silicon Based Fluid for Missile System **Mr. Nizamuddin Khan**, DMSRDE (DRDO)
344	Research and development on Pitting Resistance Antifreeze Radiator Coolant **Mr. P Ramesh**, Ashok Leyland Technical Centre

Tea

March 20, 2025 (Thursday)

Technical Session-II (1730-1900 hrs)

Paper ID	TS IIA - Fuel-Efficient Lubricants (Venue: Tango-I)
220	The Fuel Economy Improvement Effect of MoDTC with Low Viscosity Engine Oil under Hybrid Electric Vehicle **Mr. Shinji IINO**, ADEKA Corporation
327	Low viscosity, low volatility Synthetic base stocks –Targeting High Performance 0W-16/20 Engine oil Specifications **Gururaj Thilagar**, ExxonMobil Company India Pvt Ltd
334	Energy Transition: Moving Lubricants Towards a Low Carbon Future **Mr. Sebastian Lischowski**, Infineum
243	The Future of Engine Oils in Electric-Hybrid Vehicles & Flex Fuel Vehicles: Addressing Unique Challenges **Mr. Sandeep Pawar**, Lubrizol India Pvt. Ltd.
331	Longer Oil Drain Intervals for IC Engines in Commercial Vehicles **Mr. Akshay Joshi**, VE Commercial Vehicles Ltd.

Paper ID	TS IIB - AI in Fuels & Lubricants (Venue: Tango-II)
239	AI Technology in Fuel and Lubricant Formulating Science **Dr. Rahul Misra**, Lubrizol India Pvt. Ltd.
315	Leveraging Machine Learning for Accurate and Accessible Gasoline RON Prediction: A Step Towards Digital Transformation in Fuel Quality Control **Dr. Prashant Parihar**, Bharat Petroleum Corporation Limited
231	Advanced Oil Analytics: Harnessing IIoT for Equipment Reliability and Cost Optimization **Mr. Harshit Agrawal**, Minimac Systems Pvt. Ltd.
343	Innovative Cavitation Technologies for Emissions and Efficiency Optimization **Mr. Hemant Sondhi**, FOWE Solutions
234	Application of Artificial Intelligence in Renewable Energy **Mr. Ashok Jambur**, GR Technologies LLP

Paper ID	TS IIC - Circular Economy (Venue: Tango-III)
337	Re-Refined Base Oils (RRBO): A Greener Solution for the Lubricants Industry **Mr. Yin Tat Chan**, Infineum
345	RRBO Trends and its usage in Automotive Lubricant Formulation **Mr. Swapnil Joshi**, Indian Additives Ltd
244	Navigating the Challenges of Engine Oil Formulation with Indian RRBO **Ms. Sayali Sawant**, Lubrizol Corporation
229	Lubricant Reconditioning and Circular Economy Principles for Sustainable Energy Transition **Ms. Tejashree Potdar**, Minimac Systems Pvt. Ltd.
325	Are Re-Refined Base Oils Suitable for Hydraulic Oil Formulations? **Ms. Tamanna Kapoor**, Afton Chemical

March 20, 2025 (Thursday)

E-Poster Session-I (1230–1600 hrs)
(Venue: Debate)

Paper ID	Title of the Abstract	Author
202	Advanced, sustainable ester-based oil formulations for the lubrication of aircraft precision components	Dr. P. Nagendramma
342	Effect of Co-Solvent on Stability of Methanol-Gasoline Blends	Mr. Manish Malhan
205	Development of Synthetic Barrier Fluid for Pressurized Seals with Correct Viscosity Configuration	Mr. Arindam Kashyap
230	Coalescer Separator Technology for Separation Efficiency in Lubricant Manufacturing	Mr. Ajay Kumar Arya
240	Mixed waste vegetable oils: A sustainable option for Bio-based Lubricants	Dr. Jyoti Porwal
277	Experimental Investigation of Performance and Emissions of Single Cylinder Diesel Engine with Hydrogen and Different Pyrozel Blends.	Dr. Manoj Dahake
249	Dorf Ketal Novel Additive Technology for Sustainable Fuel	Mr. Brijesh Bhati
262	Tailored Catalyst Design for Efficient JP-10 High-Density Fuel Production: A make in India initiative	Mr. Naresh Kottari
322	An overview of Biomass-Based Hydrogen Production: Technology Maturity and Environmental Impacts Assessment	Dr. Vikrant Mishra
283	Effect of structure and functionality on physicochemical and Tribological Properties of biobased Guerbet Esters	Mr. Somesh Patil
284	Evaluation of Boundary Lubrication Characteristics of Estolide Derivatives at Elevated Temperature using a Force-Controlled Pendulum Tribometer	Mr. Prasad Sanjay Kumar Sanap
341	Understanding the Requirements of Fluids for E-Vehicle Applications	Dr. Lakshmi Katta
201	Effective Chemical Formulation for Solar Panel Cleaning (HP SolarOKare)	Mr. Palanisamy Ravichandran
296	Upgradation of Tyre Pyrolysis Oil through Hydrocracking route to produce Marine Fuel Oil (MFO)	Mr. Pappu Naresh
271	Artificial Intelligence based lubricant formulation prediction software	Mr. Sandeep Suddapalli
266	Characterization of Nanoparticle Emissions from Diverse Urban Sources: Initiatives towards Climate Protection	Mr. Hafiz Mayeen
273	A Flexible and Efficient Analysis Solution; Low Level Oxygenates in Liquified Petroleum Gas (LPG)	Dr. Kalicharan Chattopadhyay
237	Fabrication of Membrane Electrode Assembly for PEM Fuel Cell	Dr. S. Meenakshi
308	Process Intensified LPG Desulfurization - A Novel Approach	Mr. Uttaran Basak
297	Experimental Study on Elastomer and Plastomer Compatibility with Oxy-Diesel Blends	Dr. Justin Paul

March 20, 2025 (Thursday)

E-Poster Session-II (1600-1900 hrs)
(Venue: Debate)

Paper ID	Title of the Abstract	Author
209	Hot Rolling oil for Edger Rolling Application	Dr. Vilas Ramtenki
221	Lubricating base oils and greases from Industrial polyolefinic by-products	Dr. Manisha Sahai
232	Preform that performs with energy efficient hydraulic oil-SERVOHYDREX TH 46 PLUS	Mr. Chandrasekhar P
252	Development of Low Varnish Turbine Oil for Fertilizer Industry	Dr. Chanakya Tripathi
317	A simulated test methodology for screening of friction, wear, and extreme pressure properties of hydraulic oils	Dr. Rameshwar Chaudhary
272	Mitigation of Acidity in High TAN Crudes Using Hydrotalcite Additive	Ms. Rashmi
290	Investigating Ni-Al,Oƒ/ZrO, Catalysts for methane Oxidation to reduce Methane Emission from CNG Vehicles	Dr. Mritunjay Kumar Shukla
203	An Experimental Study on the effect of coupler on solubility and Stability of a Diesel-Ethanol Blend	Dr. Nihar Dash
204	Study on ethanol blended motor gasoline blends retained in various medium with respect to retention period	Dr. Dinesh Kumar
323	Achieving Circularity of Used Lubricating Oil through Delayed Coker Unit of Refinery	Mr. Shivam A. Dixit
265	Development of Compatible Engine oil for Diesel Engines running on oxygenated fuels (ED-5) through lab studies	Dr. Sandeep Kumar
269	Synthesis of L-histidine derivatives and their evaluation as eco-friendly lubricant additives	Mr. Piyush Gupta
312	Performance of Full Synthetic Lithium Complex Grease (NLGI 2) in Cold Rolling Mills and Hot Strip Mills of Steel Plant - A Case Study	Mr. Sambit Rout
314	Effect of electrolyte additive in Sodium ion Batteries	Dr. Senthilkumar Krishnan
294	Development of reference diesel fuel: A sustainable fuel	Dr. Srimanta Guin
295	Development of Indigenous Race Fuels: STORM-X and STORM-Ultimate Racing Fuel	Dr. Kiran Kumarvarma Chakrahari
299	Quantification of styrenes and diolefins in racing fuel by Gas Chromatography-Mass Spectrometry (GC-MS)	Dr. Sravan Bompelli
330	Prediction of Grease Life at High Temperature Using Thermal Degradation Model	Mr. Sandeep Singh

Networking Dinner

March 21, 2025 (Friday) – Schedule

Plenary Session-II (0900-1030 hrs) Fuels towards Sustainable Energy Transition	
Mr. Rob Allan Senior Fuels Advisor, Afton	Fuel Additives as Enablers for HVO Containing Renewable Diesel
Mr. Deepak Agarwal Managing Director, GPS Renewables	Role of CBG towards Sustainability
Mr. Sethuramalingam Thyagarajan General Manager, Engine Design & Development, TATA Motors	Ethanol Blending and Its Impact on Consumer
Mr. Bharat Joisar VP Sales and Marketing, Dorf Ketal	Smartly Design Technologies for Sustainable Fuels and New Technology Automobile Engines

Hi-Tea

Panel Discussion-II (1045-1215 hrs) Ecosystem for Sustainability	
Dr. Reji Mathai Director, Automotive Research Association of India (ARAI)	Building Sustainable Ecosystems for Transportation Sector
Mr. R Venkatesh Managing Director, Wartsila India	Gas as transition fuel and Future fuels
Mr. Sachin Chugh Hydrogen Lead, India, Arup UK	Hydrogen Revolution-Building an Ecosystem for a Sustainable Future
Mr. Rohit Kumar Secretary General, CMAI	Leveraging India's Carbon Credit Market for Sustainability
Mr. Pravin Dongre ED (Sustainable Development), IndianOil	OMCs Efforts for Sustainability

Plenary Session-III (1215-1345 hrs) Sustainable fuels for Transportation – New fuels and E-Mobility	
Dr. Willard A. Cutler Divisional VP & Commercial Technology Director, Corning Environmental Technologies	Opportunities in Clean Air and Clean Energy Technologies
Mr. Saurabh Dalela Director, ICAT	Government Initiatives, Regulation & Standard for New fuel-based Mobility
Mr. C. V. Raman Chief Technology Officer, MSIL	Flex fuels & e-Mobility for Passenger Car Segment
Mr. Krishnan Sadagopan Sr. Vice President, Ashok Leyland	Hydrogen: Challenges and Opportunities
Mr. Dipan Saikia Senior Consultant Oil Markets Midstream & Downstream, S&P Global	Global and Regional Trends in Lubricant Market

Lunch

March 21, 2025 (Friday)

Technical Session-III (1430-1600 hrs)

Paper ID	TS IIIA - Coolants for EVs & Data Centres (Venue: Tango-I)
218	The Path Towards Sustainable Immersion Cooling Fluids "Evonik´s Contribution" **Dr. Mario Gomez**, EVONIK
305	An Overview of Coolant Application in Fuel Cell Electric Vehicle **Mr. Vignesh M S**, Ashok Leyland Ltd.
207	Development and Evaluation of Antifreeze and Coolant for Battery Electric Vehicle using Rapid Cyclic Potentiokinetic Polarization Scanning **Dr. Amitabh Kumar Jain**, Vinni Chemicals Pvt. Ltd.
227	Battery Performance Evaluation: Thermal and Resistance Analysis in EV Drive Modes **Mr. Dinesh Deva**, HPCL Green R&D Centre, Bengaluru
255	Immersion Cooling Fluids required for Data Centers **Mr. Ritesh Lal Shaw**, Indian Oil Corporation Ltd.

Paper ID	TS IIIB - Bio-Lubricants (Venue: Tango-II)
258	Advancing Green Technology: A Study on Bio-Degradable Driveline Fluid for Commercial Vehicles **Mr. Prabhakar Sinha & Mr. Pallav Chatterjee**, Indian Oil Corporation Ltd. & Tata Motors Ltd.
285	Fundamental Insights into Bio-Sourced and Synthetic Base Oils for High-Performance Applications: Advancing Sustainable Lubrication **Mr. Abhijit Kundu**, Veedol Corporation Limited
278	Synthetic Ester (Bio- Based) Transformer Oil- A Step towards Sustainability **Mr. Satyam Yadav**, Indian Oil Corporation Ltd
267	Exploring the Sustainable Potential of Renewable Waste Cooking Oil Enhanced with Natural Antioxidant for Bio-lubricant **Dr. Suheel K. Porwal**, DIT University, Dehradun
245	Development of Ultra-Long Drain Axle Oil as a Sustainable Solution **Mr. Nilesh Kadu & Mr. Pallav Chatterjee**, Lubrizol India Pvt. Ltd. & Tata Motors Ltd.

Paper ID	TS IIIC - MWO & Industrial Lubricants (Venue: Tango-III)
329	Sustainable Concepts for Water miscible Metalworking Fluids **Dr. Oliver Thordsen**, ML Lubrication GmbH
287	Innovative Hybrid Metalworking Fluids for Sustainable and High-Performance Manufacturing **Mr. Kalpendra Rajurkar**, Veedol Corporation Limited
224	Deployment of Efficient Lubricants at Evonik "Benefits of DYNAVISÂ and NUFLUXÂ Technology **Mr. Vishal Nandurkar**, Evonik
335	Performance Evaluation Study on Catalyst Conversion Efficiency from Lubricant Oil Poisoning **Mr. Jeenal Patel**, Infineum India Pvt. Ltd.
225	Sustainable Lubrication Solution for Nuclear Power Plant **Mr. Peeyush Dubey**, IndianOil (M)

Tea

March 21, 2025 (Friday)

Technical Session-IV (1615-1745 hrs)

Paper ID	TS IVA - Base Oil & New Techniques (Venue: Tango-I)
306	EHC 340 MAX: Above and Beyond Group I Bright Stock **Mr. Santhesh Basanth Kumar**, ExxonMobil Services & Technology Private Limited
242	Petrolatum- and Sulfonate-Free Coatings for Long-Term Outdoor Corrosion Protection **Mr. Sandeep Sarode**, Lubrizol India Pvt. Ltd.
292	Characterization and Monitoring of Fuels and Lubricants using a Novel Technology **Prof. Krishnaswamy N. Ponnani**, Labcon Scientific Instruments Pvt. Ltd.
293	Water Content - a Critical Parameter for Monitoring of Fuels and Lubricant Samples **Mr. Tom Gallant**, ECH Scientific Limited

Paper ID	TS IVB - New Energy (Venue: Tango-II)
206	Deployment of Quantum Encapsulation Technologies Seawater-derived Solar-Driven Hydrogen Production for Naval Applications **Dr. Somenath Garai**, Banaras Hindu University
316	H_2 Drive-H_2 as Transport and Cleaner Fuel **Mr. Nikunj Jain**, IndianOil (BD-PC)
328	Low and Zero Carbon Fuels Combined with Conventional and Novel Powertrain Architectures **Mr. Angad Panesar**, University of Brighton, Brighton, UK
247	HP AquaOKare: A Highly effective, Eco-friendly and Novel Multifunctional-polymer based Comprehensive Antiscalant Package for Industrial Cooling Water Systems **Dr. Eswararao Doni**, HPCL Green R&D
310	CBG in the Sustainable Energy Landscape: Challenges and Way Forward **Dr. Manoj Kumar**, Indian Oil Corporation (R&D)

Paper ID	TS IVC - Specialty Products from Refineries (Venue: Tango-III)
280	Pyrolysis Fuel Oil BMCI Enhancement of IndianOil Naphtha Cracker to Marketable Carbon Black Feed Stock: A path towards Sustainable Energy Transition **Mr. Pranjal Maheshwari**, Panipat Naphtha Cracker, Indian Oil Corporation Limited
263	Novel Additive to Reduce the CO_2 emission in Pavement construction **Mr. Naresh Kottari**, HPCL Green R&D Centre, Bengaluru
301	Feasibility Study of Making Polyester and their Applications in Bitumen Modification **Dr. Kamal Kumar**, CSIR-IIP
349	Fractionation of ATF from DHDT treated Diesel-A diesel reduction methodology **Ms. Ramya M**, Chennai Petroleum Corporation Limited

March 21, 2025 (Friday)

E-Poster Session-III (1230–1600 hrs)
(Venue: Debate)

Paper ID	Title of the Abstract	Author
346	Affectivity of effluent plant and impact of treated effluent on Flara and fauna of Mathura refinery	Dr. Pratap Singh
318	Development of test methodology for screening energy efficient greases using combination of tribometers	Dr. Mukesh Kumar Dubey
226	Initiatives for Circular Economy in Used Oil at IndianOil	Mr. P. Pradeep
339	Microstructural Investigations of Gas-to-liquids (GTL) base oil vis-Ã -vis Group III & IV base oils	Dr. Ravindra Kumar
208	Infrared Spectroscopy Method for Glycerides content in Sustainable Aviation Fuel derived from Used Cooking Oil	Dr. Emmandi Ramu
236	Development of high-performance coke oven gas holder oil for steel plants	Dr. M N K Prasad Bolisetty
250	Development of specialized winter diesel with improved cold flow properties	Dr. Manisha Saraswat
253	Application of Deep Eutectic Solvent as Fuel Additive for Diesel Fuel	Dr. Nisha
259	Evaluation of RON/MON for higher ethanol (E>25) and methanol (M>25) blended gasoline by modifying existing CFR engine- An experimental study	Mr. Navarun Saikia
321	Development of Soluble Cutting Oil for Multi-Metal Machining	Dr. Ramababu Bolligarla
270	Opportunities and challenges for oxy-diesel blends as automotive fuel	Dr. Maya Chakradhar
320	Development of RRBO-based Motorcycle Engine Oil -A Step Towards Carbon Neutrality	Dr Shiv Kumar Vabbina
212	Development of Lubricants from Re-refined Base Stocks: A Step Toward Circular Economy	Dr. Swamy Maloth
300	Systematic study on biodiesel blended diesel for pipeline transportation: A step towards green sustainability	Dr. Krishna Vankudoth
307	Improvement of Gasoline Lubricity by chemically modified polysiloxane as additives	Dr. Sameeksha Raizada
291	Feasibility study of making polyester and their applications in bitumen modification	Dr. Kamal Kumar
219	Correlation of Chloride in Reforming Unit Catalyst between Potentiometric Titration & novel method of Energy Dispersive X-ray Fluorescence spectroscopy	Dr. Laxmi Bhandari
348	An Experimental Study on Biodiesel blended Low Sulphur High Flash Diesel Fuel for Marine Application	Mr. S. K. Senapati
350	Synergy of Lubrication technology and Circular Economy with Nex Gen Fuels to achieve Net Zero in Marine Sector	Mr. Abhijit A. Sarkar

Cultural program & Conference Dinner

March 22, 2025 (Saturday) – Schedule

Technical Session-V (0900-1015 hrs)

Paper ID	TS VA - EV Fluids (Venue: Tango-I)
289	Automotive Lubricants : New Trends & Technologies **Mr. Kapil Telang**, Lubrizol India Pvt. Ltd.
340	Advancements in Electric Transmission Fluid Technology **Mr. Satya Pathak**, Afton Chemical
338	Advancing E-Fluids: Balancing Durability, Material Compatibility, and Efficiency **Ms. Sonia Oberoi**, Infineum
217	Efficiency Measurements and Lubricant Optimization in Directly Cooled Electric Drives: Influence of Viscosity Index Improvers, Base Oil, and Viscosity Profile **Dr. Dmitriy Shakhvorostov**, Evonik

Paper ID	TS VB - Fuel-Agnostic Engines & lubricants (Venue: Tango-II)
268	Evaluation of Performance and CO_2 Reduction capabilities for a Multi-Fuel Engine Performance Using Diesel, CNG, Hydrogen, and Ammonia **Mr. Gourav K. Varatharaj**, Ashok Leyland Ltd.
238	Challenges and Innovations in Hydrogen Engine and Engine Oil Development **Mr. Dheeraj Bangad**, Lubrizol India Pvt. Ltd.
211	Development of High-Performance Lubricant for Hydrogen Internal Combustion Engines (H2ICE) **Dr. Sumeet Kumar Goswami**, Bharat Petroleum Corporation Limited
336	Lubricants for Ammonia Engines **Mr. Ming Sheng Kang**, Infineum

Paper ID	TS VC - Advances in Greases (Venue: Tango-III)
313	Effect of Polymers in Balancing the Grease Performance Properties **Mr. Ripudaman Singh Negi**, Siddharth Grease & Lubes Pvt. Ltd.
222	Development of Radiation Resistant Greases for Nuclear Power Plants **Dr. Virender Kumar**, IOCL R&D
288	Redefining Durability: Lithium-Free High-Performance Sustainable Grease Solutions for the Mining Industry **Mr. Amey Deokar**, Veedol Corporation Limited
347	Characterization of Different types of Waxes used in Lubricants including Greases **Mr. Anup Kumar Bhattacharya**, Balmer Lawrie & Co. Ltd.

Tea

March 22, 2025 (Saturday)

Business Talk (1030-1130 hrs) (Venue: Main Tango Hall)	
Mr. Nitin Mengi	Lubrizol India Pvt. Ltd.
Mr. Mohnish Shukla	Infineum
Mr. Manoj Nayak	Fine Orgokem
Mrs. Srejoyee Naskar	FOWE Solutions

Energy Quiz (1130-1230 hrs) Quiz Master- Sh. Deepak Taneja, DGM (CC), IOCL R&D (Venue: Main Tango Hall)	
YMCA, Faridabad	2 Student participants
Shiv Nadar University	2 Student participants
Manav Rachna University	2 Student participants
Delhi Technical University	2 Student participants
Amity University	2 Student participants

Award Ceremony (1230-1300 hrs)		
1230-1250	Award Distribution	**Dr. Alok Sharma** Chairman, NSC, ISFL 2025 & Director(R&D), IndianOil
1250-1300	Vote of Thanks	**Dr. Ajay Kumar Arora** Organizing Secretary & CGM (LT & FA), IndianOil R&D

Lunch

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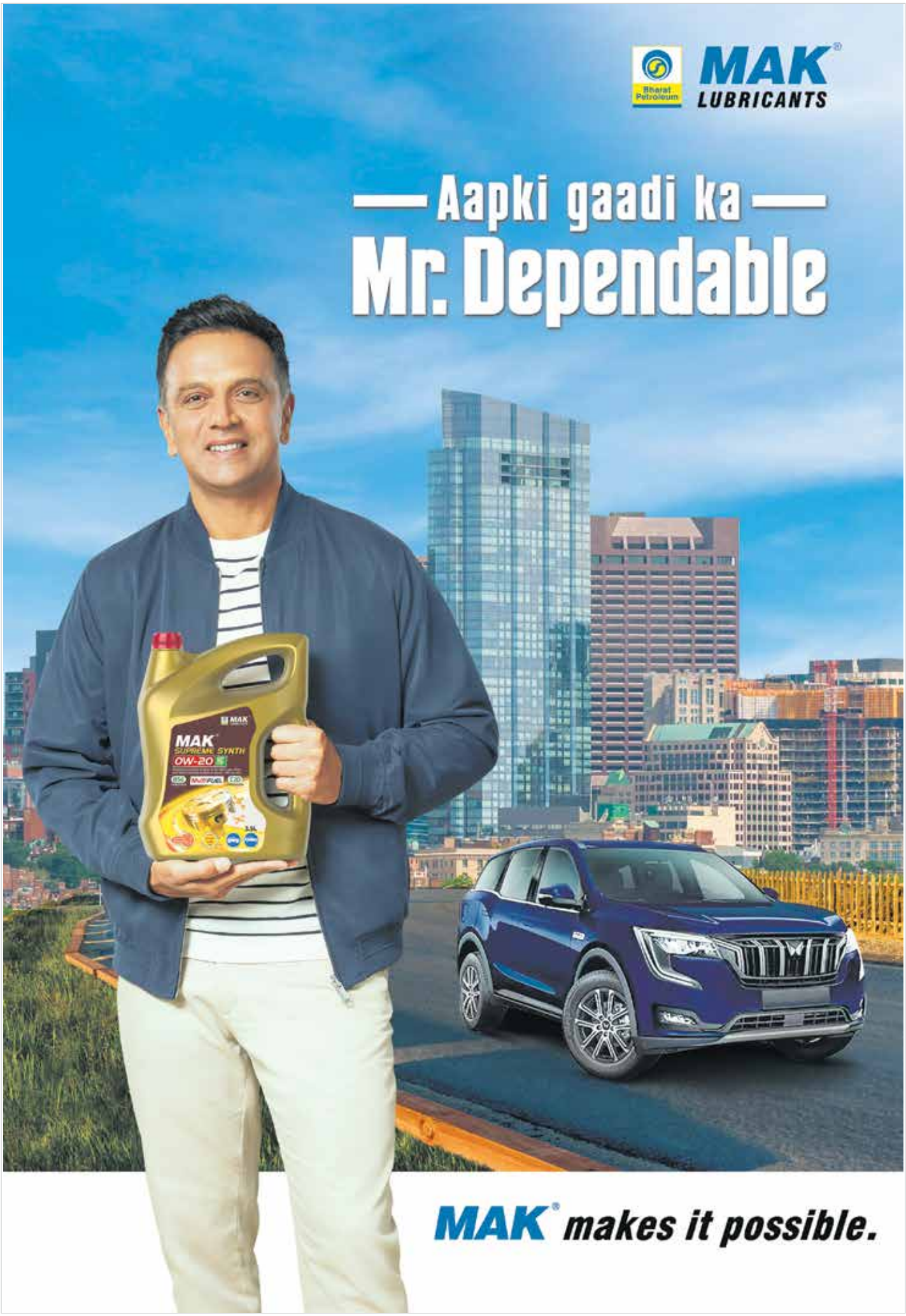
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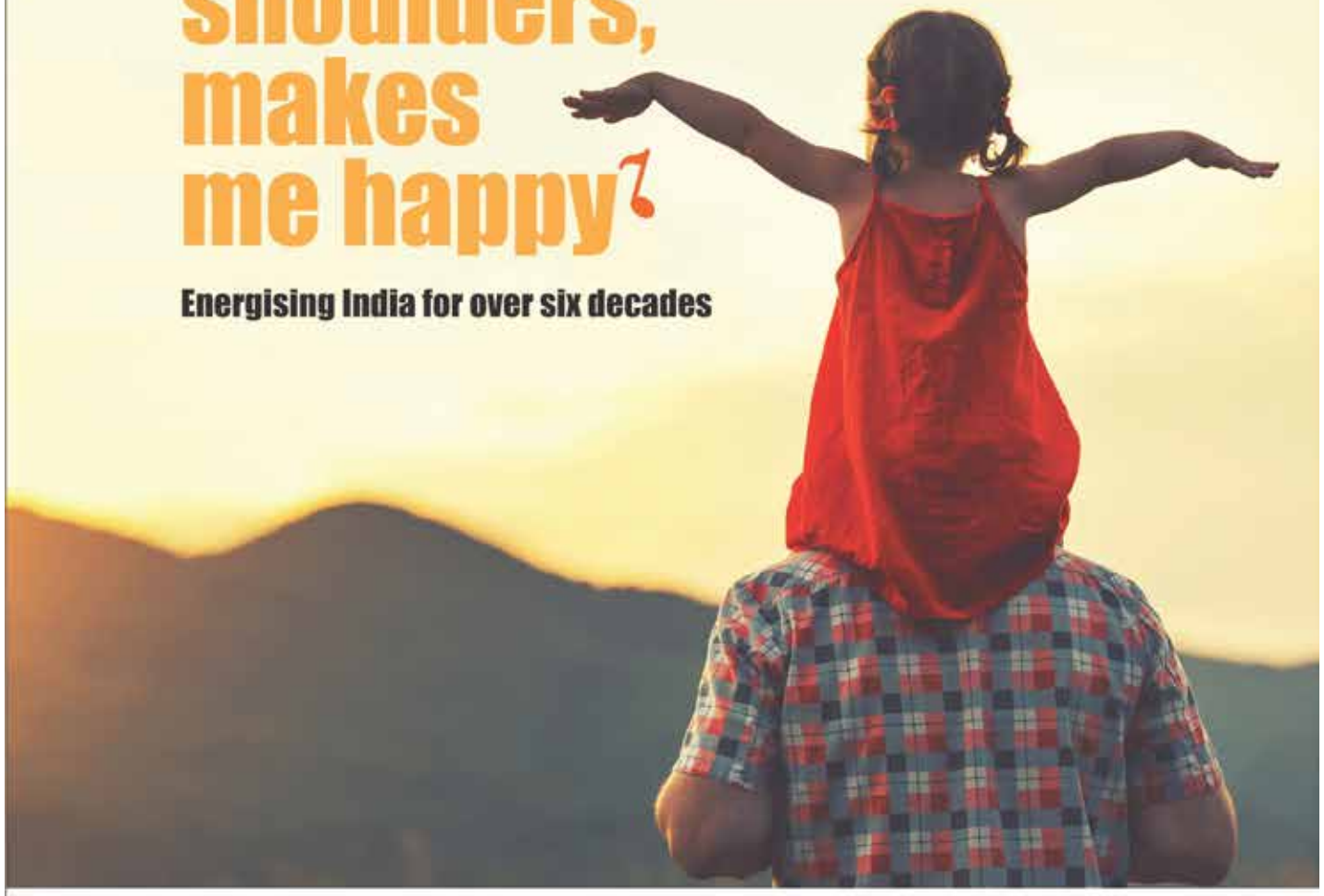

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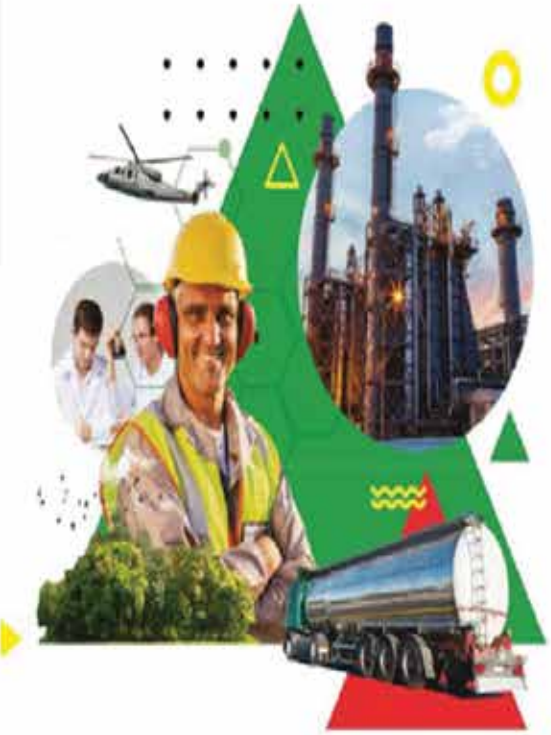

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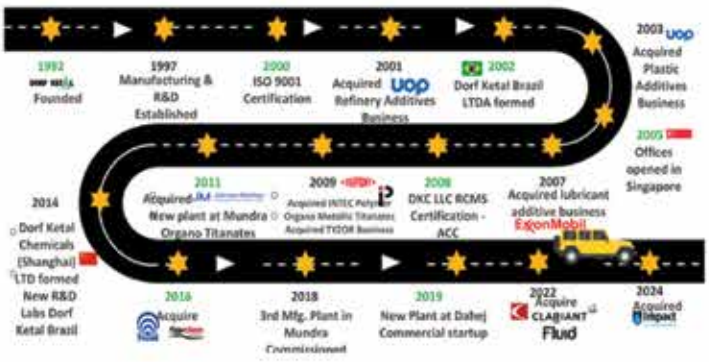

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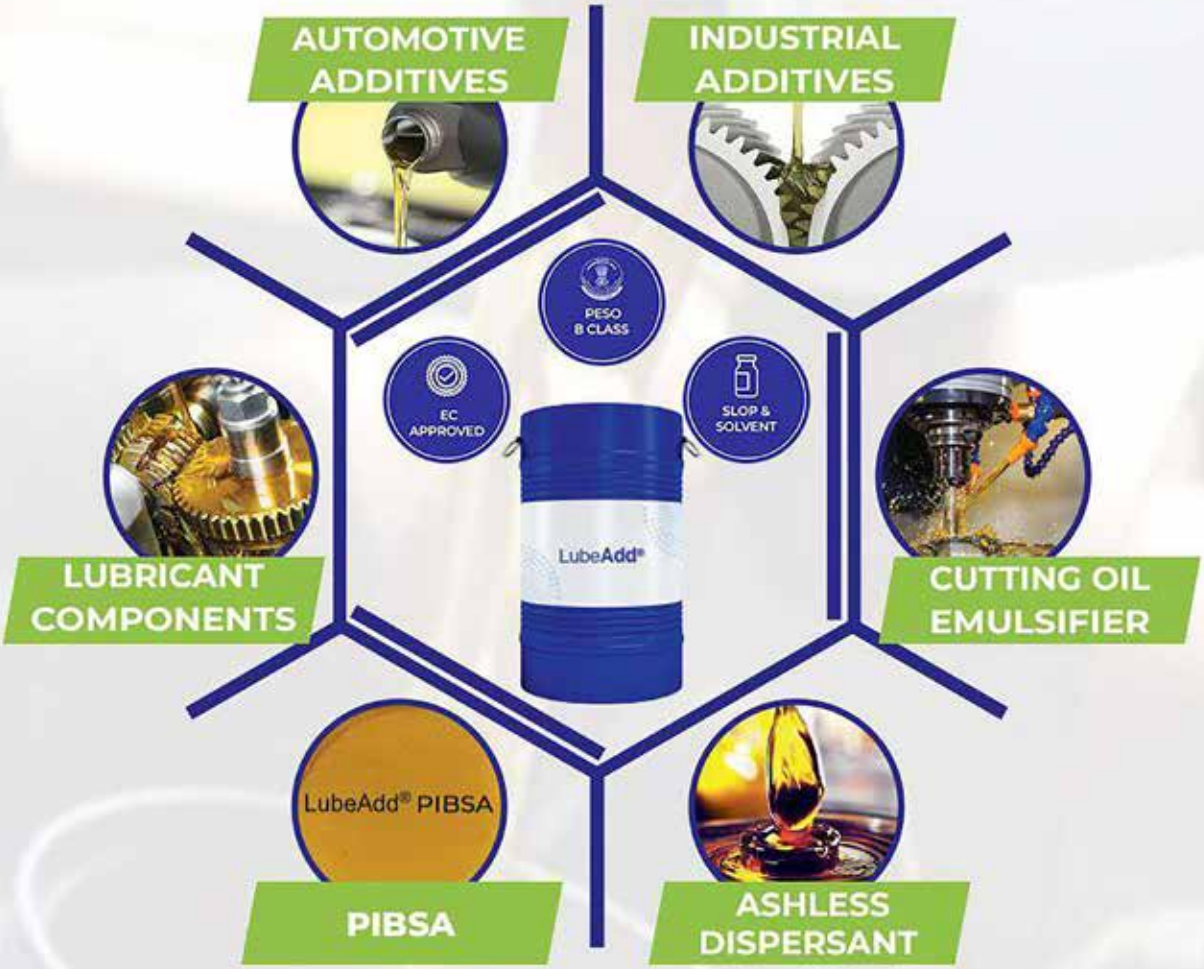

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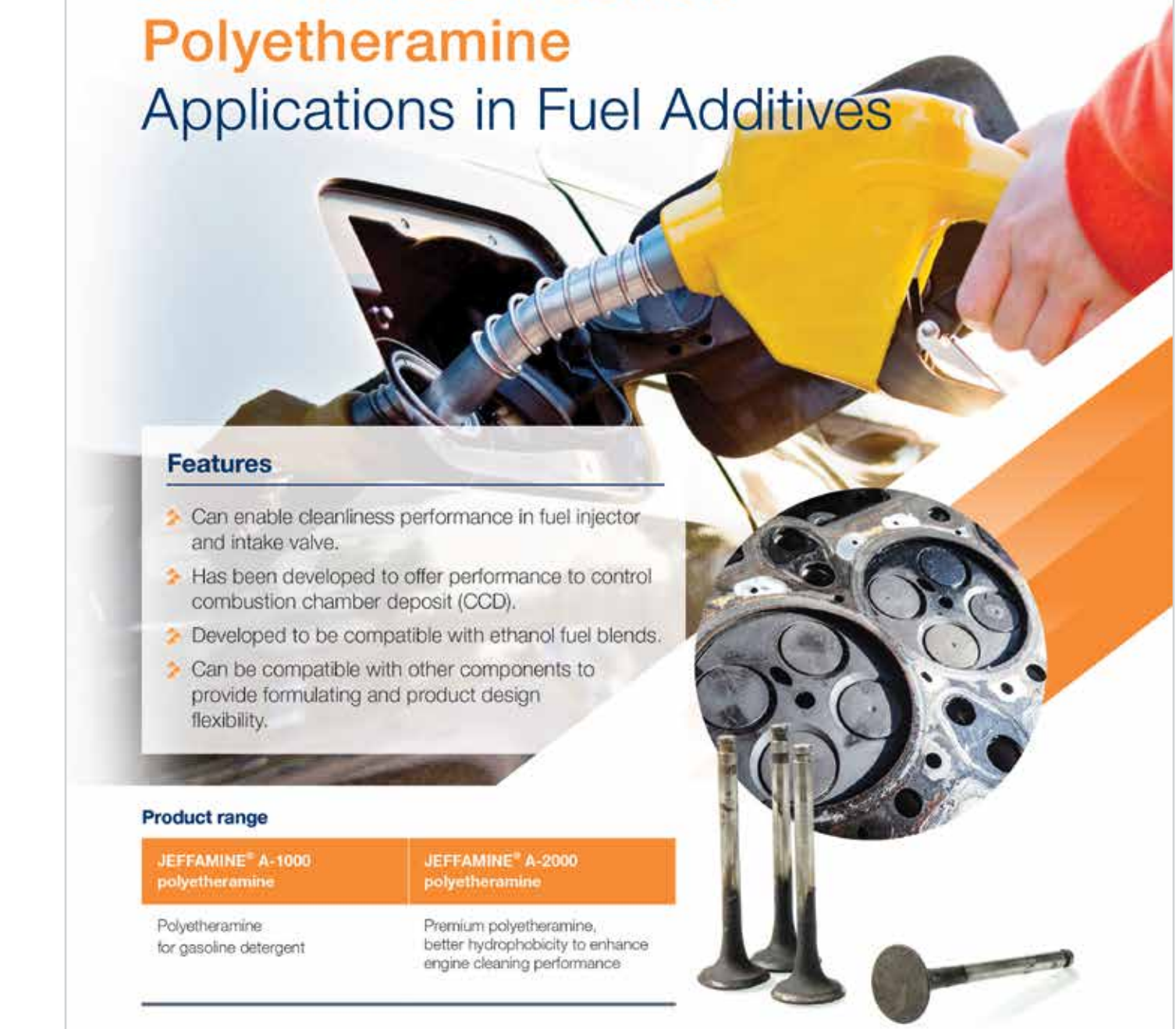

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