

KEVIN L. CROUTHAMEL, P.E.

6160 Keyser Rd., Hume, VA 22639 • Cell: 856-430-5591 • klcrouth@hotmail.com

QUALIFICATIONS

Highly skilled engineer with over 40 years of experience in product R&D, technical service, laboratory and field testing, forensic investigations, intellectual property, and project and personnel management primarily in the downstream petroleum and heavy duty truck industries. Awarded multiple patents in the area of marine diesel engine lubrication. Outstanding technical, investigative, leadership, communication and mentoring skills.

PROFESSIONAL EXPERIENCE

EXXONMOBIL CORPORATION

Princeton, Paulsboro and
Annandale, NJ, 1981-2019

Distinguished Research Associate, ExxonMobil Research & Engineering

- Subject Matter Expert and Technical Advisor to the ExxonMobil marine and industrial lubricant businesses
- Global OEM cooperative technology expert for marine diesel engine lubrication
- Mentor to less experienced technologists in lubricant product development and career path decisions

Key Forensic, Investigative and Expert Witness Accomplishments

- Provided expert testimony during European Patent Office hearing in The Hague that was key to successfully defending an ExxonMobil patent from a competitor's challenge
- Conducted inspections and a rigorous laboratory testing program and gave expert testimony that was key to successfully defending Mobil in a multi-million dollar lawsuit involving an air compressor explosion
- Conducted field inspections and a laboratory testing program that successfully identified the root cause of tanker corrosion and stalled cars involving Mobil gasoline

Other Key Accomplishments

- Invented and was granted several patents for innovative new marine diesel engine oil technologies for improved fuel efficiency, superior anti-wear performance and reduced engine deposits
- Presented ExxonMobil position on evaluation of new marine diesel engine oil formulations to CIMAC (global large engine industry organization) that successfully influenced the process for the future
- Conducted a successful new marine diesel engine oil development program that enabled lower oil consumption and presented the findings at the CIMAC World Congress in Shanghai, China
- Managed a group of 13 chemists and engineers and 6 technicians charged with formulating local industrial oil and grease products, providing technical service and conducting field trials in the U.S. market
- Formulated many new and upgraded global lubricant products for marine diesel engines and conducted laboratory test programs and field trials, including performing engine inspections in commercial vessels
- Led team that strengthened deployment effectiveness of new lubricant formulations at lube blending plants resulting in significant improvement in first-time production blending success
- Developed portable test rigs and conducted field trials in an air compressor and an inland marine vessel that successfully demonstrated energy savings resulting from use of ExxonMobil synthetic lubricants
- Provided highest-level of lubricant and fuels technical service and analyses in support of ExxonMobil refineries, lube plants and end-use customers
- Evaluated the performance of new or modified industrial and marine diesel engine oil additives, base oils and formulations in laboratory bench and engine tests aimed at improved performance and/or reduced COGS

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SMITH, STEPHENS, REED & PHILLIPS, INC.

Hightstown, NJ
1995 – 1999

Consultant forensic engineer and expert witness (Part-time)

- Performed many forensic investigations, reported results and served as an expert witness in lawsuits involving industrial accidents, automobile accidents, residential construction defects, slips/trips/falls and other personal injuries

Key Forensic, Investigative and Expert Witness Accomplishments

- Provided forensic analysis and expert testimony in federal court that contributed to the successful defense of a tool manufacturer in a personal injury lawsuit
- Investigated multiple personal injury cases including the contribution of the design and maintenance of the equipment involved

MACK TRUCKS, INC.

Allentown, PA
1977-1981

Test Engineer, Mack Trucks, Inc., Vehicle Development Laboratory

- Developed new truck component designs and tested them in the laboratory and in the field
- Determined the root causes and corrective actions for field issues with Mack trucks

Key Accomplishments

- Conducted a failure analysis field test program that determined that stresses in a main suspension multi-leaf spring were borderline-excessive and the likely cause of occasional failures
- Developed a working prototype cab air suspension system enabling evaluation of various suspension modes with the test truck in actual over-the-road operation

OTHER RELEVANT EXPERIENCE

- Acted as general contractor for construction of 2 houses and a barn for my family

EDUCATION / LICENSE

THE PENNSYLVANIA STATE UNIVERSITY
Bachelor of Science, Mechanical Engineering, 1977

University Park, PA
1973 - 1977

Professional Engineer, New Jersey License No. 24GE02816900

1981 - present