

The Magazine For Pump Users Worldwide

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PUMPS & SYSTEMS®

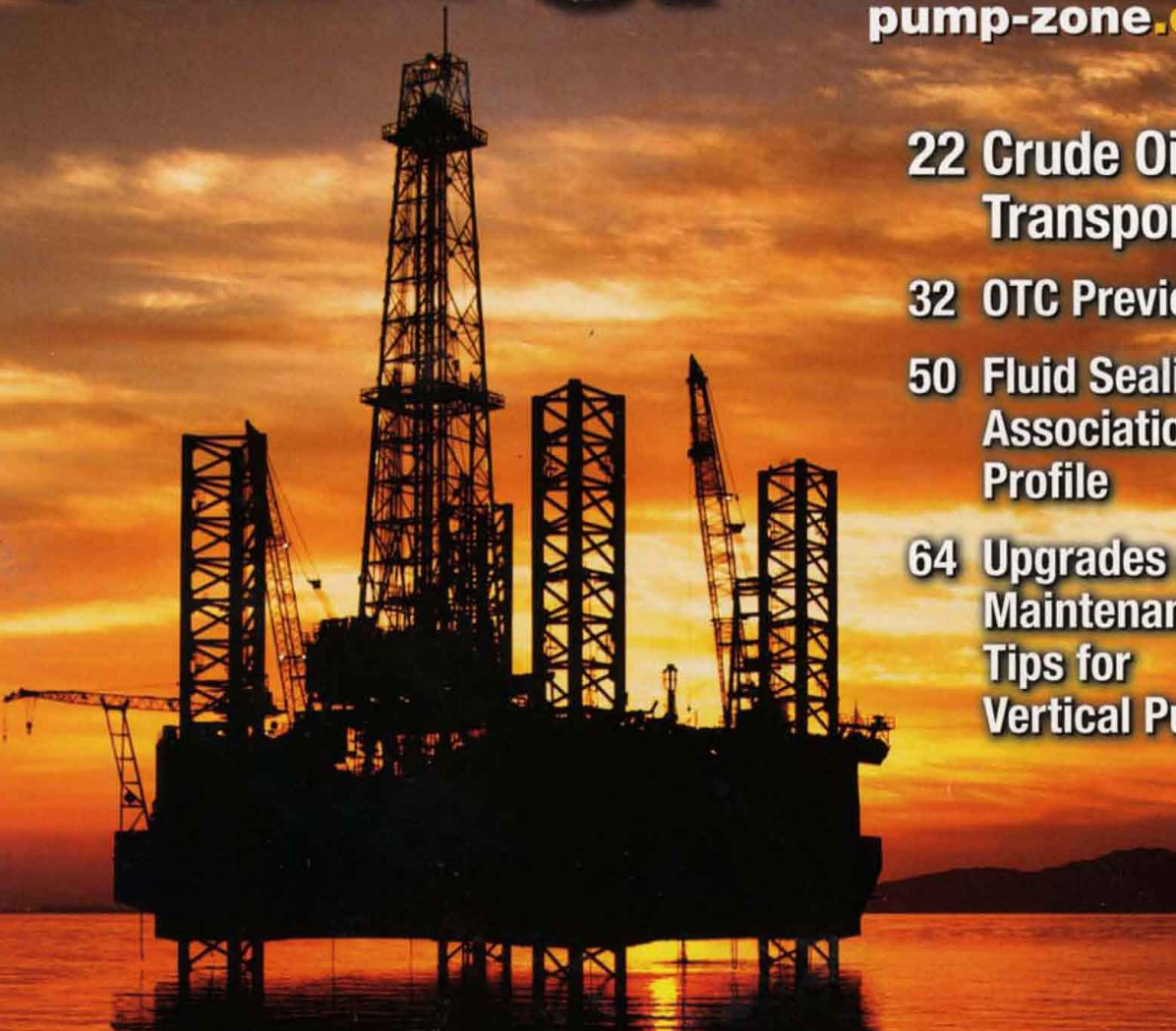
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Tips for
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**OIL, GAS & BIOFUEL
PUMP APPLICATIONS**

Sealing Technologies Solutions

Split Isolator

Garlock KLOZURE offers the first truly unitized split isolator, the Split GUARDIAN. It offers exceptional bearing protection for pumps and motors under the harshest conditions. When uptime and mean time to repair (MTTR) are primary concerns, the Split GUARDIAN can save thousands of dollars in maintenance due to the unique split design. No more costly tear down of equipment is required.

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Carbon-Graphite Materials

Metallized Carbon Corporation offers Metcar mechanical seal primary rings and seal faces manufactured to specifications using highly engineered carbon-graphite materials. Metallized Carbon Corporation is recognized for its Metcar materials for mechanical seal rings and seal faces needed in demanding, high speed and high load applications. Metcar mechanical seal rings are ideal for sealing liquids such as water, hot water, acids, alkalis, fuels, oils, heat transfer fluids, liquefied gases, solvents and beverages. They are also ideal for sealing gases such as air, hot air, steam, inert gases and dry nitrogen. Antimony impregnated grades manufactured by Metcar are favored for running in volatile hydrocarbons where ordinary resin impregnated carbon-graphite grades would blister.

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Rotary Shaft Seals

Dichtomatik offers the TCM brand AO series rotary shaft seals. The AO design is a two-part seal consisting of the stationary sealing element fitted within the bore and the metal sleeve mounted on the pump shaft. The sleeve rotates inside the sealing element, forming the sealing interface. This design eliminates shaft surface wear and allows a less critical shaft surface finish. One-piece seal designs form the sealing interface around the shaft and require a finer surface finish. The AO design can accommodate shafts of up to 9 in diameter and surface speeds of up to 10 ft/s. The sealing element is available in nitrile, Viton® or graphite-impregnated Viton®. The metal sleeve and spring are available in carbon steel or stainless.

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Sealing Systems Technology

Zerelli Technologies provides sealing system technology. Drawing on decades of experience and Six Sigma methodology, it works to provide high quality parts at competitive prices. It is personally committed to understand, meet, and when possible, exceed customer requirements through the continuous improvement of its processes. It is dedicated to delivering defect-free product on time at a competitive cost. Products include oil seals, bearing seals, v-rings, bore plugs, o-rings, precision custom designed rubber molded products and specialty PTFE seals.

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Heavy Duty Polyurethane Seal

Oz Seal has developed a new heavy duty polyurethane seal, the Oz Ultra Performance Polymer. More flexible than the existing Oz Super Red Polymer, the Oz Ultra Performance Polymer is designed for use in heavy duty hydraulic applications requiring high levels of precision positioning. The material is made using Oz Seal's unique proprietary Poly4-component processing plant. Ideal for applications that require high levels of precision, such as simulators, earthmoving, food manufacture processing, building and motor vehicle equipment. The material offers outstanding durability when compared with rubber, plastics and even metals. The Oz Ultra Performance Polymer can lower maintenance costs and increase productivity by reducing the frequency of seal changes. The material works in extreme temperatures (-20 to 120 deg C), remains flexible at low temperatures and has a shelf life of around 30 years.

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Bearing Protection

The GUARDIAN from Garlock Sealing Technologies offers exceptional bearing protection for pumps and motors under harsh conditions. This non-contacting seal uses an engineered unitizing ring, which provides a virtually frictionless seal that will not consume additional energy. The patented Cam-Lock system allows for ease of installation without the need of an arbor press, providing significant cost savings.

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