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# Pipeline

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## SAUDI ARABIA BOOSTS LOCALISATION

BHGE and Honeywell speak exclusively on how they will support localisation ambitions within Saudi Vision 2030

### METERING:

How technology is helping transform the metering sector

### CHEMICALS:

Continued growth for the chemical industry

### FEATURE TOPICS:

Valves & Pipes, Visuray Interview and Pre-ADIPEC Focus

result, both the pipe and gasket were declared fit for use. After 1000 hours, 2208 hours and 4416 hours of chemical exposure to 37 per cent HCl, the test rig of DN100 size FRP piping and gasket was pressure tested for tightness. 22.5 bar pressure was held for 24 hours and no visual leakage was detected and no pressure drop occurred.

To confirm pressure resistance and compatibility with the specified seating stress in larger size pipes, a pressure tightness test was conducted in a DN400 size flange using the same pipe gasket under the following conditions: Flange:

DN400, inner diameter (ID) 400 mm, outer diameter (OD) 509 mm stub end FRP flange, Design pressure: 15 bar, Testing pressure: 22.5 bar, Temperature: 65° C, Gasket: GORE Universal Pipe Gasket (Style 800) DN400 PN16, ID 407 mm, OD 495 mm, Bolts: 16 Nos of 1" ASTM B7, Torque value: 330 Nm, Resulting gasket stress at installation: 19 MPa, Holding time of applied pressure: 168 hours (seven days).



After chemical test - Flange reveals no chemical attack after 1000 hours of 37 per cent HCl exposure

After seven days (168 hours) of holding the pressure at 22.5 bar, another hydrotest test was performed. The flange was re-torqued to 560 Nm (31 MPa gasket stress) and pressure was raised to 60 bars (four times design pressure) and no leakage nor pressure loss was observed. Further increase of pressure resulted in leakage starting at 91 bar with no trace of pipe disintegration.

### Gore ePTFE can meet the challenges of FRP piping systems

FRP piping connections have considerably advanced in the recent past. A design pressure of 15 bar is technically confirmed and tested for nominal sizes of up to 400 mm. High strength GORE ePTFE Gaskets are the gasket of choice for these applications when: (i) sufficient gasket stress can be applied and (ii) proper stress calculations are made to ensure integrity of the FRP flange system, the seal and the flange set-up. A flange set-up includes the stub-end ring,

the bolts, the flanges and the gasket. To ensure successful performance, proper installation practice by using torque wrenches and lubricants during bolt-tightening is necessary.

The conducted chemical and high-pressure tests prove that GORE Universal Pipe Gaskets (Style 800) are well suited for FRP piping in aggressive media applications.



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# LUKOIL COUNTS ON MIDDLE EAST

Exhibitor: Lukoil Hall: 11 Stand No.: 11430

**According to LUKOIL forecasts, the Middle East will play a major role in meeting global hydrocarbon demand in the next decade. Moreover, it is becoming an important energy consumer, attracting investors to build not merely production and export lines, but also processing and distribution facilities in the region.**

LUKOIL is one of the largest publicly traded, vertically integrated energy companies in the world accounting for more than 2 per cent of the world's oil production and around 1 per cent of the proved hydrocarbon reserves.

LUKOIL's operations in the MENA region go back to 1995 when the company acquired its first project in Egypt. In 2003 LUKOIL entered Iran and in 2004 – Saudi Arabia. However, the major step was made in 2010 when the company was awarded the contract for development of the giant West Qurna-2 field in Iraq. Today WQ-2 project is

the cornerstone of LUKOIL's operations in the Middle East.

The Company has invested more than US\$7.5 billion in the development of the field and has achieved current Phase 1 targeted production plateau of 400,000 barrels per day. WQ-2 is a very large and successful project. Seven years ago, there was just grazing ground in that area, while nowadays, it is like a small town, with a huge processing facility, storage tanks, more than 100 km pipeline, 126 megawatt power station, and a compound for 1,200 staff members.

In 2012, LUKOIL expanded its presence in Iraq with Block 10, and in February 2017 very promising results of the exploration were announced. In the coming years, the company looks forward to further expansion in the region.

The position of UAE in the region is unique. It is becoming not only a major

energy producer and exporter, but also a management and innovation hub for the entire Middle East. The political and economic stability of the country attracts investors from all over the world.

ADIPEC, accordingly, is becoming a major industry event. In 2017, LUKOIL will present in Abu-Dhabi its cutting edge technologies, that enable it to eliminate any environmental risk during offshore operations, boost APG utilisation, reduce energy consumption, produce high quality motor fuels, lubricants and renewable energy.

The top managers of LUKOIL will take part in the major ADIPEC Conference, such as Global Business Leaders Panels and MEPC VIP Programme. They will share their thoughts and ideas on the global energy market developments, future supply and demand balance, investment policies and cooperation between national and international energy companies.



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# TRIZAC EXCITED FOR ANOTHER STRONG SHOWING

Exhibitor: Trizac Abu-Dhabi Hall: 3 Stand No.: 3220

**Trizac Abu-Dhabi has been involved at every ADIPEC since its inception and has seen it grow year on year. "Trizac has always seen the benefit of participating at ADIPEC, which has become a truly global event," said Ahmad Nabulsi managing director Trizac Abu-Dhabi.**

He added: "ADIPEC not only gives us the opportunity to present our products and new companies we have added to our portfolio but it also gives us the opportunity to meet other oil and gas companies. We also get to enrich our knowledge of new products, systems and solutions that other international manufacturers are bringing to the Industry. Today ADIPEC is the launching point where all manufacturers bring their newly developed products and solutions to the oil and gas global community."

The oil and gas industry is going through a difficult period with the drop in oil



prices. However, the situation provides an opportunity for oil companies to restructure themselves and become more efficient and use the available resources amid tighter

budgets to maximise return.

"There is an opportunity for manufacturers to develop more efficient products and for companies to present solutions that can help oil companies effectively reduce their cost."

The current oil and gas landscape makes it ripe for acquisition. Trizac Abu-Dhabi is on the lookout to acquire companies that complement its existing offering. He concluded: "Trizac Abu-Dhabi believes that oil and gas will remain the main source of income and wealth for the UAE and ADNOC will inject investment into developing the sector. Trizac Abu-Dhabi wants to be part of this development and offer ADNOC and its affiliates with products and services to achieve their goal. We believe that the UAE market has great growth potential and we want to be part of it."

# ARDCO BRING NEW MULTIPURPOSE TRUCK TO ADIPEC

Exhibitor: ARDCO Hall: 8 Stand No.: 8253

**ARDCO recently announced the release of the next generation Articulating Multi-Purpose Truck (AMT), featuring a modular back-end platform that offers the flexibility to customise the vehicle to suit any work environment, from urban construction projects to extreme off-road jobsites.**

The powerful and rugged AMT is designed to accept a wide array of standard and customisable attachments, the company said. Available configurations include a bare chassis, flatbed, water tank, fuel tank, dump bed, service and lube station, utility bed, personnel carrier, pipe trailer, drill, and custom solutions. End-users can easily change attachments, while rental companies can serve a variety of customer applications with a single machine.

Multiple tire choices – tractor,

construction, terra or sand – help further configure the machine to various work conditions in construction, oil and gas, railroad, utility, forestry and agriculture.

The AMT can navigate difficult terrain and work in any environment, ARDCO said. Powered by a 250-horsepower Cummins QSB6.7 Tier 4 Final diesel engine, the AMT 600 model features selectable 4- or 6-wheel-drive and offers a maximum payload of 45,000 pounds.

The AMT 400 model has a



200-horsepower Cummins Tier 4 engine, offers 2- or 4-wheel-drive, and provides a max payload of 28,000 pounds for hauling fuel, water, dirt and more. Top travel speed for each unit is 23 miles per hour.