

Case Study: Major KSA Based Rig Operator

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Customer Profile

One of the world's largest oil, natural gas and geothermal drilling contractors operating throughout the Middle East, the Americas, the Far East, and Africa.

Running a selection of drilling equipment and jack-up rigs both offshore and on land. This case study focuses on one specific rig with a drilling depth of 15,000ft, operating at a depth of 250ft with 3 PCM120 Electric Cranes with a 100ft Boom (rated at 50 tonnes at 24ft).

The Problem

The Marathon Le Tourneau Crane Hook and Boom Motors with brakes within the rig were operating with excessive noise during lifting, lowering and braking operations. We were contacted to carry out a conditioning report and investigate the issue.

The parts were removed and sent to dm+ for inspection and at our 2000m² facility in which our engineers discovered the End Bells and Brake Hubs to be badly worn.



Hook Motor
(left)



Boom motor
(right)
Complete
with brake
unit

The Solution

Once our engineers had completed the conditioning report and analysed the results they began working on the repairs.

Utilising parts from our on-site stock at our Bahrain facility, which is regularly replenished to minimise maintenance and repair lead times, we were able to very quickly replace the end bells and brake hubs in addition to overhauling the motors and carrying out essential repair work.

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The Solution... Continued

Once the essential repair work had been completed the motors and brakes were tested at our on-site testing rig (featuring Low Voltage Test Panel), to check the quality of the work and ensure that the motors and brakes were operating at maximum efficiency before being dispatched back to the rig.

Having the dm+ test rig has proved to be an enormous asset to our company since we are able to confirm that all of our work, whether repairs or maintenance, are undertaken to the highest standards and we can be confident that the equipment is being returned to the customer in excellent condition.

This facility also enabled us to issue an ISO9001: 2008 certificate to the customer, further emphasising our quality management capabilities.

A selection of images demonstrating the completed repairs can be seen below:



Why choose dm+?

dm+ offers unrivalled technical expertise and service in the repair and maintenance of rotating equipment.

Serving the electro-mechanical repairs market with a combined experience in excess of over 100 years, our management team and engineers have experience working in some of the most advanced industries including: Petrochemicals, Oil & Gas, Power, Water, Aluminium, Steel and Transportation.

Located in close proximity to the Eastern Oil Fields of KSA in Askar, Bahrain, we are ideally located to serve all markets within the Middle East including Kuwait and Qatar. Our 2000m² facility is fully equipped with the latest equipment in the industry, capable of servicing all components including generators, alternators, motors, electrical brakes, pumps and fans.

In addition to heavily investing in our facility and equipment, we are quickly building a reputation within the industry for our outstanding levels of service. We understand the impact that asset uptime can have on your business which is why we are dedicated to providing fast reaction times, clear communication updates throughout the repair process, rapid turnaround and, most importantly, a quality repair or service.

And finally, we recognise the importance of safety. Our engineers are accredited by the AEMT and Loughborough College, Great Britain to the requirements of IEC (International Electrotechnical Commission) / EN 60079-19:2011 - Explosive atmospheres and we implement the highest standards of Quality, Health & Safety, Environmental Management Systems, Technical, Process and Insulation Specifications, so you can rest assured that your equipment will not only perform well, but it will perform safely.