Iron Roughneck Makeup Torque Performance Test Service

A New Service Available from NOV Rig Systems Aftermarket

Stemming from customer feedback and a continuing focus of service above all, we are launching the Makeup Torque Performance Test Service for our line of land Iron Roughnecks.

This service is now available in North America.

Accurate Torque Readings
Verification that your NOV Iron Roughneck is making connections at the proper torque and the Iron Roughneck's performance indicators match accordingly

Comprehensive Service to Maximize Uptime
Service performed by field service technicians who provide on-site troubleshooting and repair of the NOV Iron Roughneck. They are trained to identify and fix issues in real time, a differentiator from our competitors

Service Supported by Mobile Solutions
FAST Service Trucks are stocked with OEM Iron Roughneck replacement parts for quick access and service to reduce downtime

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How It Works

A purpose-designed NOV torque transducer is placed in the Iron Roughneck jaws and a proprietary NOV test procedure is used to measure makeup torque and key performance indicators; this test has been developed by pooling knowledge and experience from Instrumentations and Iron Roughneck Design groups to diagnose and evaluate the Iron Roughneck's complete torque performance. This can help detect under-torquing issues - which can be a contributing factor in loss of pipe downhole - as well as over-torquing issues - which can possibly result in damaged pipe. Variances can be diagnosed or corrected on-site so you can maximize uptime.

Features

- Service is portable and supported by both our aftermarket facilities and our mobile solutions. It can accommodate all NOV Iron Roughnecks.
- Transducer components are made of resilient material to allow for high volume of test cycles.
- A formatted report detailing important data is generated after each test. Actual data may also be delivered upon request.
- The test procedure was created by NOV Iron Roughneck Engineering to ensure alignment of design and implementation, as well as overall service accuracy, consistency and reliable results.
- The transducer accuracy is within ±0.50% of FS
- All test equipment is calibrated every six (6) months to ensure accuracy

Specifications

Torque Measuring Range	10,000 ft-lbs to 100,000 ft-lbs
Accuracy	± .50% of FS
Operating Temperature Range	14°F to 122°F (-10°C to 50°C)
Electrical Requirements	100-250 VAC, 50-60 Hz, 6 Watt
Relative Humidity	90% at 104°F (non-condensing)
Sample Frequency	230 readings per second
Length	17" (6.5" long couplings for upper and lower jaws to clamp onto)
Diameter	8.5"
Weight	233 lb
Safe Overload	2x (200% RO)