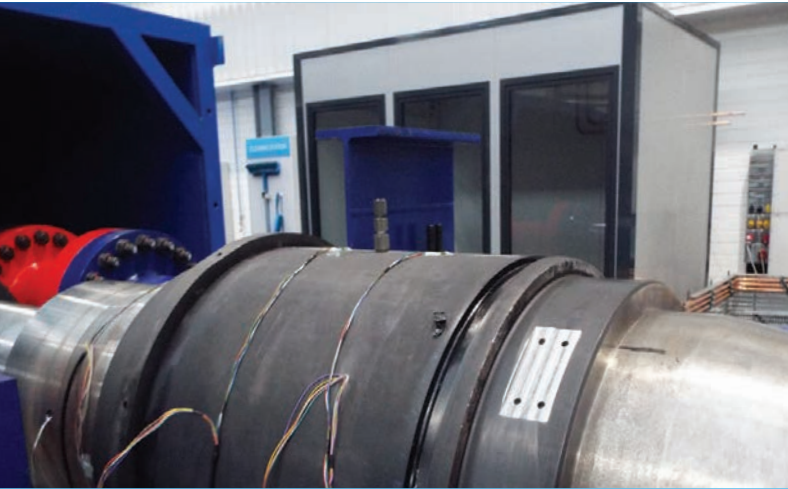




RISER & DRILLING SYSTEMS

Structural Testing



15K HPNI Riser Test



Heartlands Test Laboratory

Complete Testing Services

Oil States Industries advanced Structural Test Laboratory is internationally recognised for testing tubing and casing to ISO 13679:2002 (FDIS 2011E)-API 5C5 standards. UKAS accredited since 1992. The Oil States Test Laboratory meets ISO Standard BS/EN/ISO/ IEC 17025 and is designed to simulate normal and extreme operational load cases for product evaluation, prototype development and design validation of FEA analytical models.

Testing is routinely conducted on structures, including: wellhead connectors; valve systems; production tubing and casing; work-over risers; tendon connections and flexible risers.

The laboratory provides testing for Oil States' products and those of third-party clients, including: oil companies; oil service companies, civil engineering, aviation and transportation companies. Testing is conducted to international standards, typically:

- ISO 10423:2009
- ISO 14313:2007
- ISO 13679:2002
- ISO 21329:2004
- ISO 13628-7:2006

Comprehensive Facilities

The Oil States' Test Laboratory offers complete testing services, including tension and compression with combinations of internal and external pressure with bend. Extreme temperature cycling with gas or hydrostatic pressure also available.

Onsite Data Acquisition

Engineers can be commissioned to trouble shoot and are available 24/7 and equipped with portable data acquisition technology for structural load monitoring and other tasks. Data can be promptly analysed by Oil States' stress engineers to quickly resolve problems and minimise down-time.

Third Party Witnessing

Oil States can arrange for the witnessing of any test by approved authorities such as Lloyds Register, Det Norske Veritas or the American Bureau of Shipping.

UKAS-Accredited

- A UKAS (United Kingdom Accreditation Service) accredited laboratory since 1992
- BS/EN/ISO/IEC 17025



1042
Certificate No. LRQ 0954937





RISER & DRILLING SYSTEMS

Structural Testing

Tension/Compression Equipment

- 1000 ton rig (9964kN) - 5½" (140mm) to 7½" (190mm) tubulars
- 2000 ton rig (19928kN) - 7⅝" (194mm) to 30" (762mm) tubulars
- 2400 ton rig (23914kN) - 7⅝" (194mm) to 30" (762mm) tubulars
- 2800 ton rig (27900kN) - 7⅝" (194mm) to 30" (762mm) tubulars
- 8000 ton rig (80MN) - 36" - 44" tubulars

Our 1000/2000/2400/2800 ton tension test rigs are purposely built, in the UK for ISO 13679-API 5C5 testing.

Our 8000 Hydraulic Tension Rig, the largest-capacity rig available for testing tendons, offers high-load connector testing, up to maximum axial tensile load of 80MN. This is primarily used for conducting tension tests on Oil States' proprietary Merlin™ Connectors for tension leg platforms and TLE tendon connectors.

Bend Rigs

- Up to 36" (914mm) diameter specimens 9,000,000 ft.lbs (1,2220kN m) maximum moment.

Fatigue Testing

- BS 3518 Part 1: 1993
- BS 3518 Part 3: 1963 (1990)
- BS ISO 12107: 2003

Wellhead & Christmas Tree Equipment

- API 6A - ISO 10423: 2003

Subsea Wellhead & Christmas Tree Equipment

- API 17D - ISO 13628-4

Pipeline Valve

- API 6D - ISO 14313: 2007

Performance Evaluation of High Pressure Casing & Tubing

- ISO 13679: 2002 (FDIS2011E) API 5C5
- Performance Evaluation of Connectors for use in Pipelines
- ISO 21329: 2004

Pipeline Impact Testing

- Pipeline Code: BS 8010

Completion/Workover Riser Systems

- API - 17G - ISO/FDIS 13628-7: 2005 (E)

Testing at Elevated and Subzero Temperatures

- -20°C to 300°C

Onshore Strain Gauge Monitoring Service

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