



CERTIFICATE OF CONFORMITY

THIS IS TO CERTIFY THAT: The Documents described in this certificate have been completely reviewed as per the requirements of Original Equipment Manufacturer "OEM" & Relative Standards. The result was found Satisfactory at the time of review and considered conform with OEM & Standard requirements.

Certificate No.: ATS-SLB-COC-25-01

Client: Schlumberger- Iraq

Department: Coiled Tubing (CT)

Location: Iraq - Basra - SLB MBC

Date of Survey: 31/Aug/2024

Scope: 5-years Major Survey (Re-certification) for Coiled Tubing BOPs

Unit Number: TBP64220Y2502

BOP Model: ES44 Combi BOP

BOP Serial Number: 152-48151

Conform with: OEM Requirements / API RP 16ST

OEM: NOV (Texas Oil Tools)

Unit: ES44, 4.06", 10 K Combi BOP

Documents & Requirements:

- OEM:
NOV - Texas Oil Tools (TOT) - WCE Recertification, Inspection, and Repair V0.2/2022 (Level 3: 5-Years recertification)
Standards:
Well control equipment system components shall be inspected at least every 5 years in accordance with the equipment owner's PM program...
SLB:
Asset Care Program - Reservoir Performance - TBP/Coiled Tubing BOP - Service Level 4 (Annual) - Maximo PM Code: TBPSL4
3rd party:
Inspection and testing certificates (QC-SLB/24206-01 through QC-SLB/24206-016)

ES44, 4.06", 10 K Combi BOP Specifications:

- BOP Maximum Hydraulic Operating Pressure (MHOP): 3000 Psi
BOP-Booster Cylinder Maximum Hydraulic Operating Pressure (Booster MHOP): 3000 Psi
BOP Maximum Working Pressure: 10000 Psi
Service: H2S to Nace MR-01-75
Weight: 1590 lbs





# ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION



**Tubing Range:** 1.00" to 2.375"

**Torque Values applied:** Bonnet Bolts Torque 200 ft.lbs

**Shear/Blind Rams:** 1.00" to 2.375" Coils OD range / Current Blades Serial Nos: 8801-0844 RH, 8801-0844 LH/Replaceable Rams

**Pipe/Slip Rams:** 1.00" to 2.375" Coils OD range /Replaceable rams have replaceable inserts

**Integral Equalizing Valve:** integral to the body

**Actuators:** Actuator1 (for Blind/shear rams) / Actuator2 (for Pipe/Slip rams)

**Manual Locks:** Manual locking stems

**Compression Pins & Retainers:** for Slip Inserts

**Bolts & Studs:** ASTM A320 Grade 7L

**Nuts:** ASTM A194 Grade 7L

**ES44, 4.06", 10 K Combi BOP Components:**

Component	Part(s) Number
Bop Change Rod Open & Change Rod Close	9905-2929B / 9905-2931B /9905-2845B /9905-2846B
Secondary Piston	9905-2925B
Main Piston	9905-2924B
Piston Assy	9905-2923B
Ram body LH & Ram body RH	9905-4251AB&9905-4151AB
Main Rod	9905-2926B
Bonnet& Bonnet Shear/Seal	9905-2841B / 9905-2921B
Main CYL	9905-2922B
Cylinder	9905-2844B
Main CYL Cylinder	9905-2844B
Change Cylinder	9905-2932B
Ram Change Cylinder	9905-2843B
Slide	9905-2933B
Hydraulic Cap	9905-2842B
Body 4.06 10K BX 155 S x O	M602006-2000B-TX

**Remarks:**

The following Documents and Observations:

- OEM:**
- NOV – Texas Oil Tools (TOT) – WCE Recertification, Inspection, and Repair V0.2/2022 (Level 3: 5-Years recertification)
- SLB:**
- Asset Care Program – Reservoir Performance – TBP/Coiled Tubing BOP – Service Level 4 (Annual) – Maximo PM Code: TBPSL4
  - Asset Care Program – Reservoir Performance – TBP/Coiled Tubing BOP – Test Reference Checklist
  - Asset Care Program – Reservoir Performance – TBP/Coiled Tubing BOP – Asset Performance and Function Tests
  - Asset Care Program – Reservoir Performance – TBP/Coiled Tubing BOP – Inspection/Ram Bore
  - Recorded Pressure Test Charts (Blind/Shear Test, Pipe/Slip Test, After shear test centered/pressure on actuator, After shear test centered with the Rams manual lock engaged/without pressure on the actuator, After shear test off centered/pressure on actuator, After shear test off centered with the Rams manual lock engaged/without pressure on the actuator)
  - Shear Test Reports
  - Pipe Heavy Test @ 30000 lbs ~ 10minutes
  - Pipe Light Pull Test @ 20000 lbs ~ 10minutes
  - Dimensional Check records (2.06" BX-152 10K Flange, 4.06" BX-155 10K Flanges,
- 3<sup>rd</sup> party:**
- Inspection and testing certificates (QC-SLB/24206-01 through QC-SLB/24206-016)
- have been reviewed and found conform to OEM & Standard requirements

**ES44, 4.06", 10 K Combi BOP # 152-48151 has been found ready and safe to continue into service**

**Reviewed By: Eng. Hasan Omran**

**Signature:**

**Date: 05-May-2025**



**Approved By: Eng. Majd Dayoub**

**Signature:**

**Date: 06-May-2025**

**Next Annual recertification Date: 30-Aug-2025**

**Next 5-Years recertification Date: 04-May-2030**



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