DRILL PIPE PERFORMANCE DATA SHEET Pipe Size: 4.500 in (114mm) Grade: **S135** Range: 2 Pipe Weight: 16.6lb/ft (24.70kg/m) IEU **DS40** Upset: Connection: Pipe NEW **API PREMIUM** 110.9 Pipe size in 4.500 mm 114.3 OD mm114.3 24.70 8.6 6.8 Pipe weight lb/ft 16.60 kg/m Thickness mm **Upset Type** IEU X-Sec Area cm² 28.4 22.4 Section Modulus cm³ Tube grade 70.0 54.8 S135 2 cm³ Polar Section Modulus 109.7 Range 140.0 931 265 208 Tube Yield MPa Tensile Yield kdaN 75,200 59,000 ID 97.2 Torsional Yield N-m mm 80% Torsional Yield N-m 60,200 47,200 Internal Pressure Yield MPa 122.0 111.7 75.8 Collapse Yield MPa 115.8 D/t 13.35 16.19 Connection/Tube Torsional Ratio 0.638 **Tool Joint** NEW **REC MIN OD** 133.4 123.8 **Connection Type DS40** OD mm Material Yield Strength MPa 896 Tensile Yield Strength kdaN 374 374 OD mm 133.4 **Torsional Yield Strength** N-m 48,000 35,500 28,700 ID mm68.3 Recommended Makeup Torque 21,300 18 Pin Shoulder Angle deg Pin Tool Joint Length 356 mm**Box Tool Joint Length** 356 **Drill Pipe Assembly** Shoulder-Shoulder Length 9.60 m Adjusted Weight kg/m 27.99 Closed End Displacement L/m 10.57 Open End Displacement 3.57 L/m Fluid Capacity L/m 7.00

The information contained in this data sheet and other attached documentation is for reference use only. It is not intended to imply any explicit recommendation regarding processes, procedures, or performance of the end product. It is the responsibility of the end user to verify and determine the appropriate use of the technical information - no expressed or implied warranty by Complete Group is intended.

Drift Size

mm

65.1

Calculations are based on uniform wall thickness and outside diameter – no safety factor has been applied. The information provided for inspection classes is based on uniform wear and is not intended to recommend or confirm operational limits of any used product. It is recommended that drilling torque not exceed 80% of the makeup torque, however it is the responsibility of the end user to determine the acceptable use of the end product including appropriate performance ratings and safety factors where applicable. All connection torque calculations have been performed using a thread compound friction factor of 1.0. Complete Group does not endorse any specific thread compound and waives all responsibility in determining appropriate makeup torque values for any specific drilling circumstance. Modifying makeup torque values for any reason shall be done at the end users discretion and risk.

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DRILL PIPE PERFORMANCE DATA SHEET

Pipe Size: (114mm) 0 Grade: S135 Range: 2

Pipe Weight: 4.70kg/m)

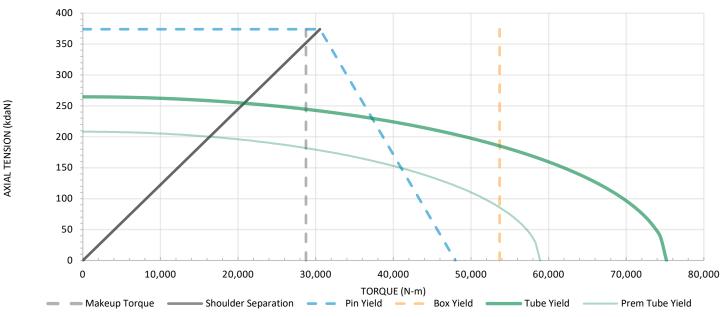
0 Upset:

IFU

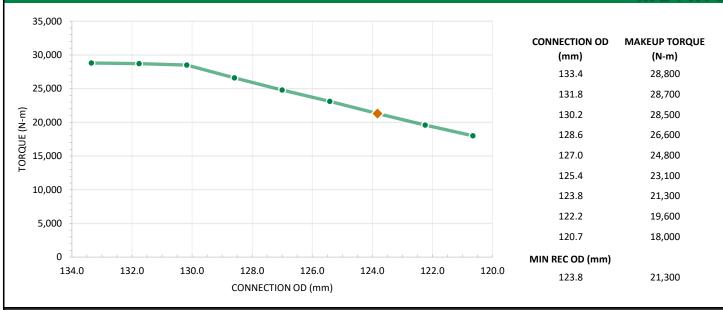
Connection:

DS40





Connection Wear Chart



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