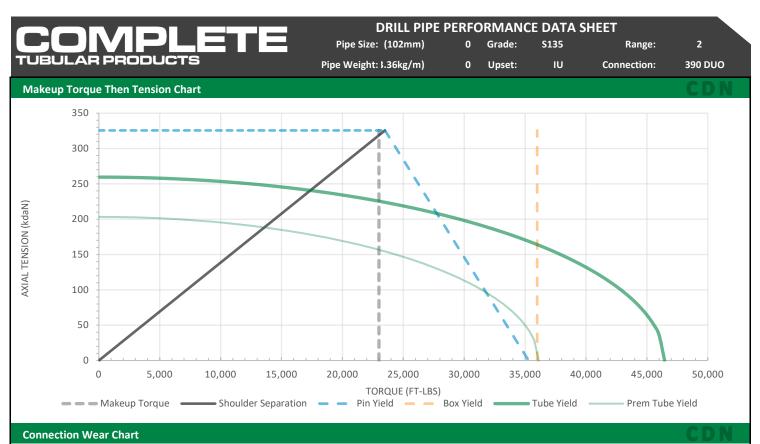
DRILL PIPE PERFORMANCE DATA SHEET Pipe Size: 4.000 in (102mm) Grade: S135 Range: 2 Pipe Weight: 15.7lb/ft (23.36kg/m) 390 DUO Upset: IU Connection: Pipe NEW **API PREMIUM** 4.000 OD 101.6 97.7 Pipe size 101.6 in mm mmlb/ft 9.7 7.7 Pipe weight 15.70 kg/m 23.36 Thickness mmUpset Type IU X-Sec Area cm² 27.9 21.8 cm³ Tube grade Section Modulus 58.6 45.6 S135 cm³ 2 Polar Section Modulus Range 117.3 91.2 931 259 203 Tube Yield МРа Tensile Yield kdaN 46,500 36,100 ID 82.3 Torsional Yield ft-lbs тт 80% Torsional Yield ft-lbs 37,200 28,880 Internal Pressure Yield MPa 154.4 141.3 Collapse Yield MPa 160.0 128.2 D/t 10.53 12.66 Connection/Tube Torsional Ratio 0.759 **Tool Joint** NEW **Connection Type** 390 DUO OD 123.8 mmMaterial Yield Strength МРа 896 Tensile Yield Strength kdaN 326 OD 123.8 Torsional Yield Strength ft-lbs 35,300 тт Recommended Makeup Torque ft-lbs 21,200 ID mm68.3 22,900 Maximum Makeup Torque ft-lbs Pin Shoulder Angle deg 18 356 **Pin Tool Joint Length** mm Box Tool Joint Length 356 mm

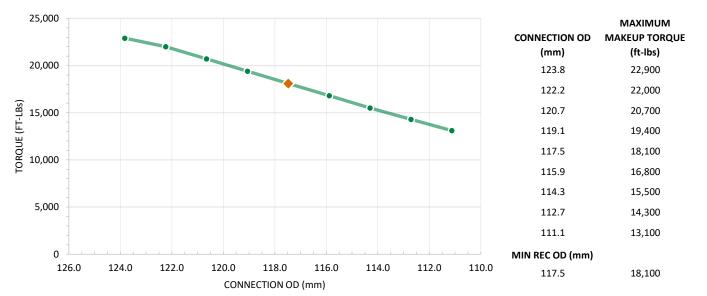
Drill Pipe Assembly				C	DN
Shoulder-Shoulder Length	т	9.60			
Adjusted Weight	kg/m	25.55			
Closed End Displacement	L/m	8.41	т ³/т	0.00841	
Open End Displacement	L/m	3.26	m³/m	0.00326	
Fluid Capacity	L/m	5.15	т ³/т	0.00515	
Drift Size	тт	65.1			

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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 Tubular Products 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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