COMPI		DRILL PIPE PERFORMANCE DATA SHEET								
	5	-	Pipe Size: 4.500 in (114mr			.4mm)	Grade:	S135	Range:	3
GRUUF				Pipe	Weight: 16.6lb/ft (2	4.70kg/m)	Upset:	IEU	Connection:	450 DUO
Pipe										CDN
							NEW		API PREMIUM	
Pipe size	in	4.500	mm	114.3	OD	mm	114.3		110.9	
Pipe weight	lb/ft	16.60	kg/m	24.70	Thickness	mm	8.6		6.8	
Upset Type		IEU			X-Sec Area	cm ²	28.4		22.4	
Tube grade		S135	Section Modulus			cm³	70.0		54.8	
Range		3	Polar Section Modulus			cm³	140.0		109.7	
Tube Yield	МРа	931	Tensile Yield		kdaN	265		208		
ID	mm	97.2	Torsional Yield			ft-lbs	55,500		43,500	
			80% Torsional Yield		ft-lbs	44,400		34,800		
			Internal Pressure Yield		МРа	122.0		111.7		
			Collapse Yield			МРа	115.8		75.8	
					D/t		13.35		16.19	
			Connection/Tube Torsional Ratio				0.977			
Tool Joint										CDN
							NEW		REC MIN OD	
Connection Type		450 DUO			OD	mm	139.7		133.4	
Material Yield Strength	МРа	896	Tensile Yield Strength		kdaN	439		439		
OD	mm	139.7	Torsional Yield Strength		ft-lbs	54,200		43,800		
ID	mm	76.2	Recommended Makeup Torque		ft-lbs	32,500		26,300		
Pin Shoulder Angle	deg	18	Maximum Makeup Torque		ft-lbs	35,200		28,500		
Pin Tool Joint Length	mm	356								
Box Tool Joint Length	mm	356								
Drill Pipe Assembly										CDN
			Shoulder-Shoulder Length		m	13.72				
				Α	djusted Weight	kg/m	26.36			
				Closed En	d Displacement	L/m	10.55			
			Open End Displacement			L/m L/m	3.36			
				Fluid Capacity			7.19			
					Drift Size	mm	73.0			

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.

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.

The information in this publication is subject to change without notice, please contact Complete Group for the latest publication

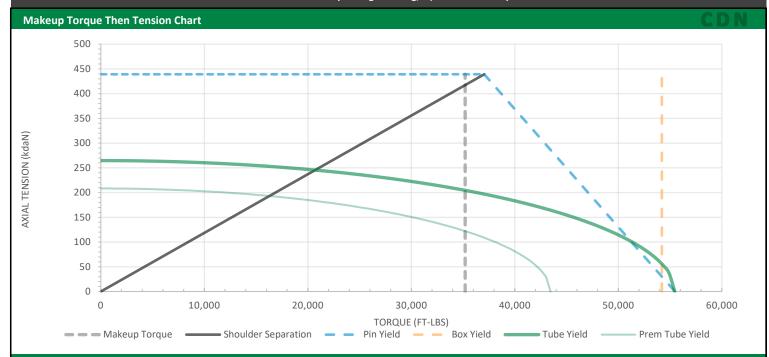
Generated on: 11/26/2019 ©2019 Complete Group

COMPLETE GROUP

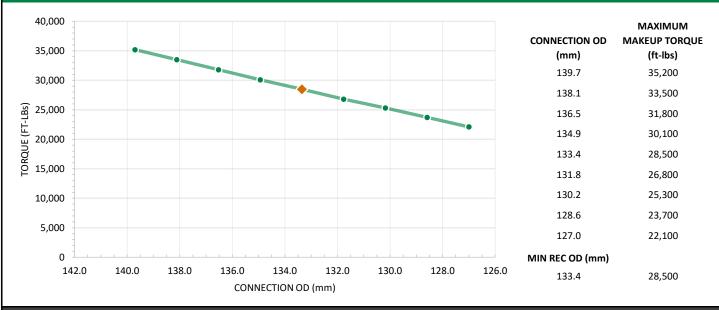
DRILL PIPE PERFORMANCE DATA SHEET

Pipe Size: (114mm) 0 Grade: S135 Range: 3

Pipe Weight: 4.70kg/m) 0 Upset: IEU Connection:



Connection Wear Chart



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.

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.

The information in this publication is subject to change without notice, please contact Complete Group for the latest publication

450 DUO