DLC drill pipe

DRILL PIPE PERFORMANCE DATA SHEET

5.500", 21.90#, S135, IEU, R2 DLC 544 - 6.625" X 4.000"

PIPE BODY SPECIFICATION							
OD	5.500	in					
ID	4.778	in					
Nominal Weight	21.90	lb/ft					
Grade	S135						
Tube Yield	135	ksi					
Range	2						
Upset Type	IEU						

PIPE BODY PERFORMANCE							
	NEW	PREMIUM					
OD	5.500	5.356	in				
Thickness	0.361	0.289	in				
X-Sec Area	5.828	4.597	in ²				
Tensile Yield	787,000	621,000	lbs				
Torsional Yield	91,300	71,800	ft-lbs				
Burst Capacity	16,800	14,200	psi				
Collapse Capacity	12,700	7,500	psi				
D/t	15.24	18.54					

TUBULAR ASSEMBLY	' SPECIFI	CATION		
Shoulder Length	31.5	ft		
Pin TJ Length	10	in		
Box TJ Length	12	in		
Adjusted Weight	24.03	lbs/ft		
Fluid Capacity	0.904	gal/ft		
	0.0215	bbl/ft		
Closed End	1.271	gal/ft		
Displacement	0.0303	bbl/ft		
Open End	0.367	gal/ft		
Displacement	0.0087	bbl/ft		

All dimensions shown are presented as nominal unless otherwise stated - actual manufactured values may vary due to tolerancing. Calculations are based on uniform wall thickness and outside diameter with no safety factor applied. The information provided for inspection classes is based on uniform wear and is not intended to confirm operational limits of any specific used product.

CONNECTION SPECIFICATION						
Connection	DLC	544				
Yield Strength	130	ksi				
OD	6.625	in				
ID	4.000	in				
Drift Size	3.875	in				
Min OD	6.232	in				

CONNECTION PERFORMANCE								
Thread Compound Friction	Thread Compound Friction Factor			1.10 FF	1.15 FF			
Tensile Strength	lbs	1,211,500	1,211,500	1,211,500	1,211,500			
Torsional Strength	ft-lbs	83,900	88,100	92,300	96,500			
Minimum Makeup Torque	ft-lbs	41,900	44,000	46,100	48,200			
Standard Makeup Torque	ft-lbs	50,300	52,800	55,300	57,800			
Enhanced Makeup Torque	ft-lbs	58,700	61,600	64,600	67,500			

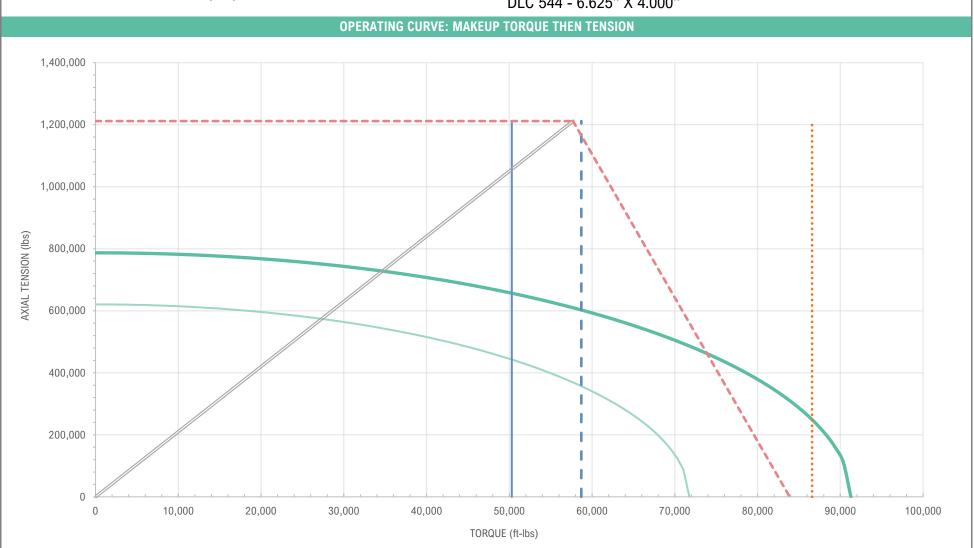
Connection torque calculations are performed using a thread compound friction factor (FF) of 1.0; values of FF other than 1.0 are provided for reference use only. DLC drill pipe does not endorse specific thread compounds and waives all responsibility in appropriate thread compound selection and performance. It is recommended that drilling torque not exceed 80% of the makeup torque and it remains the responsibility of the end user to determine the acceptable use of the end product including the determination of appropriate performance ratings and safety factors where applicable. Modifying makeup torque values for any reason shall be done at the end users discretion and risk. Elevator capacity is provided for reference only and shall not be interpreted as an engineered safe lifting load.

CONNECTION WEAR PERFORMANCE										
MAKEUP TORQUE (ft-lbs)		ELEVATOR CAPACITY (lbs)								
Tool Joint OD	Joint OD 1.0 Friction Factor 1.15 Friction Factor		tion Factor		Elevator Bore			5.813	in	
in	Standard Makeup	Enhanced Makeup	Standard Makeup	Enhanced Makeup	ľ	110,100 psi Stress			130,000 psi Stress	
	ft-lbs	ft-lbs	ft-lbs	ft-lbs		New	1/32" Wear		New	1/32" Wear
6.625	50,300	58,700	57,800	67,500		873,300	841,800		1,031,200	994,000
6.560	49,500	57,800	56,900	66,500		798,700	767,200		943,000	905,800
6.494	47,100	55,000	54,200	63,300		724,700	693,200		855,700	818,500
6.429	44,800	52,300	51,500	60,100		651,500	620,000		769,300	732,100
6.363	42,500	49,600	48,900	57,000		579,100	547,600		683,800	646,600
6.298	40,200	46,900	46,200	53,900		507,400	475,900		599,100	561,900
6.232	37,900	44,300	43,600	50,900		436,400	404,900		515,300	478,100



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Enh. Makeup Torque

Shoulder Separation

--- Pin Yield •••• Box Yield

Std. Makeup Torque

Tube Yield

Prem Tube Yield