

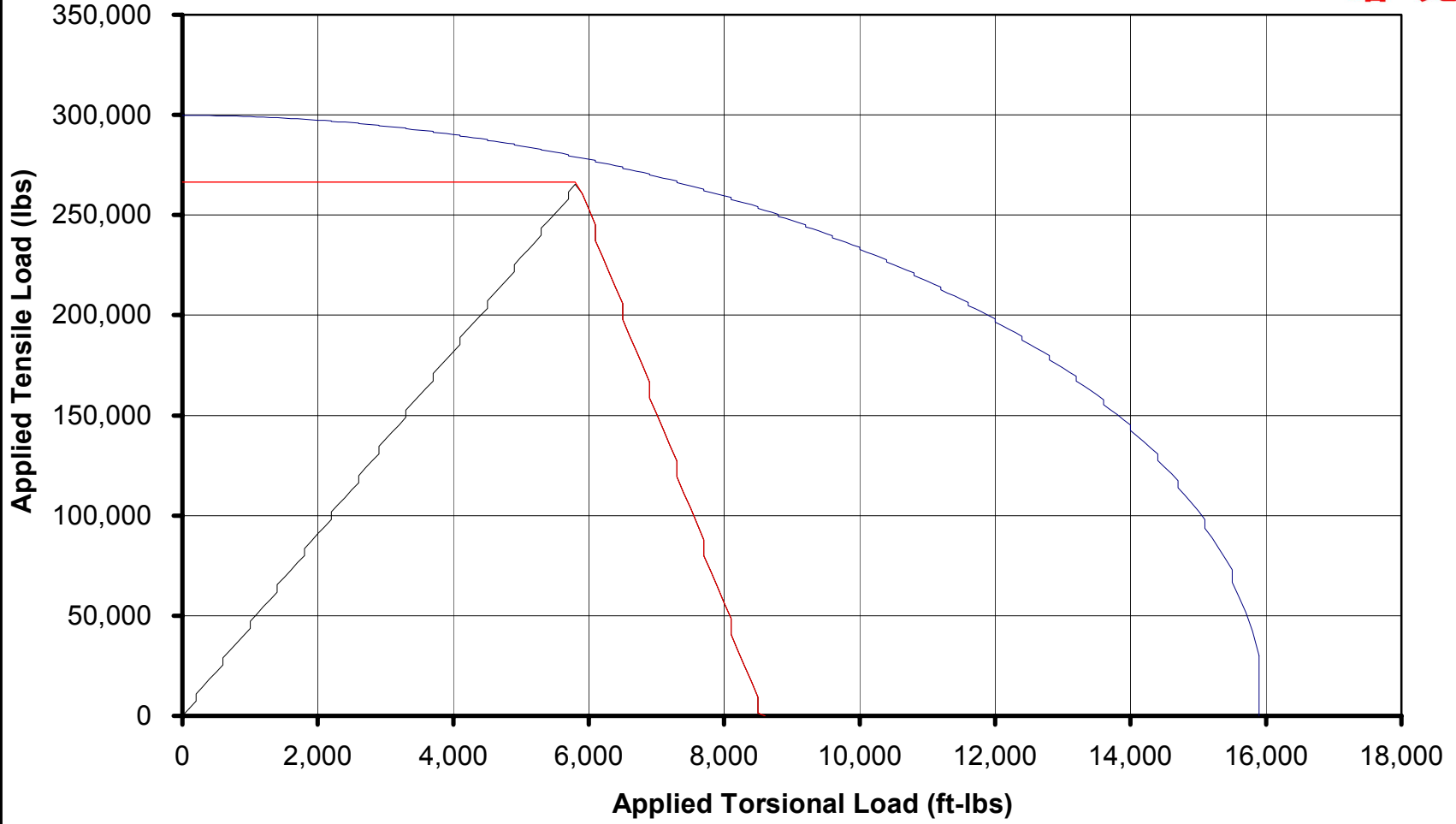
FOR REFERENCE ONLY



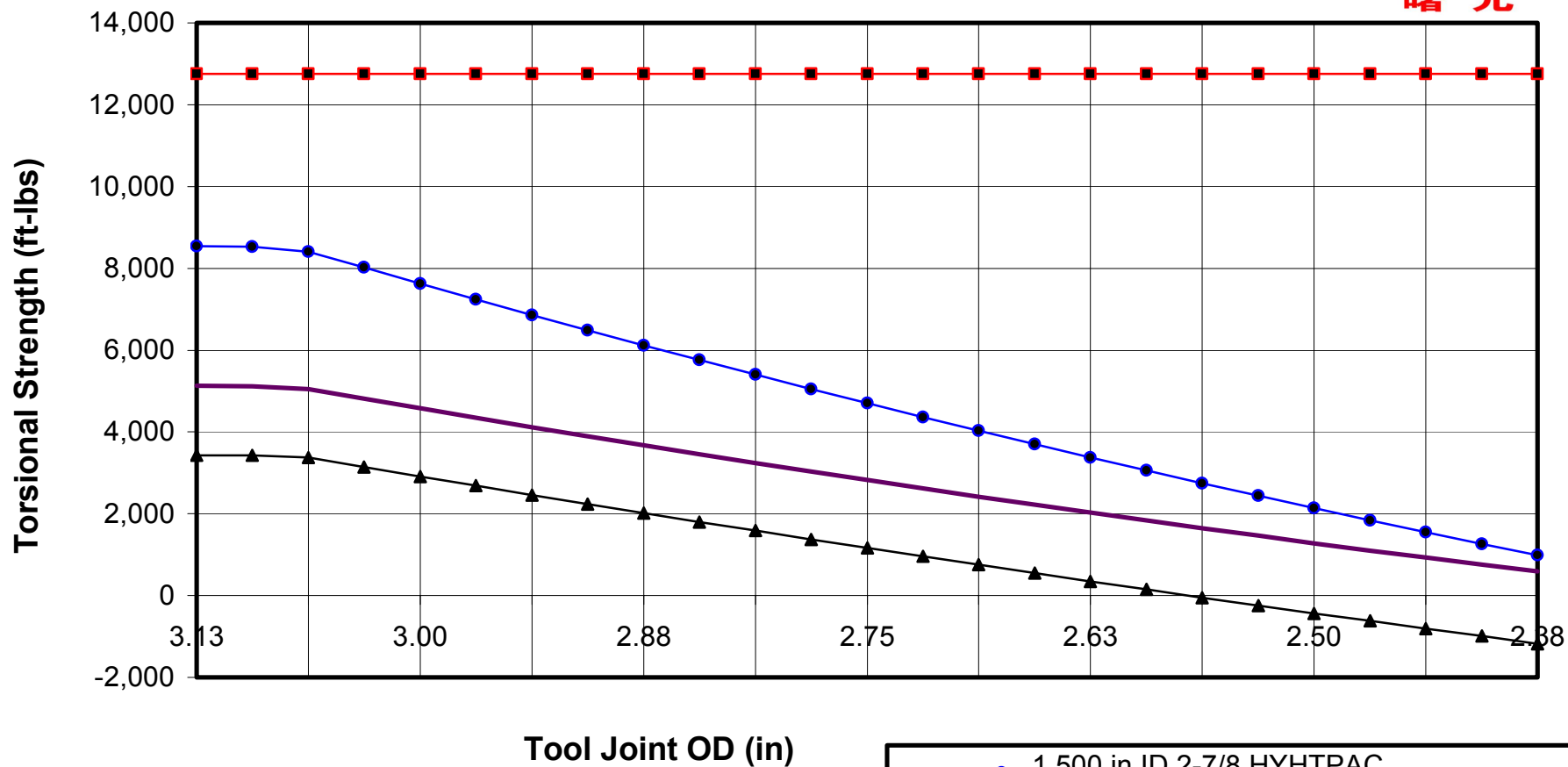
Drill Pipe Performance Characteristics ©			Pipe Size and Weight: 2-7/8" 10.40 IU Pipe Grade: S-135 Range: 2 Tool Joint: 3.125 X 1.500 2-7/8 HYHTPAC			
Pipe						
		New	Premium		New	Premium
	OD (in)	2.875	2.730	Torsional strength (ft-lbs)	20,800	15,900
	Wall thickness (in)	0.362	0.290	Tensile strength (lbs)	385,800	299,800
	ID (in)	2.151	2.151			
	Calculated plain end weight (lbs/ft)	9.706	7.541	80% Torsional strength (ft-lbs)	16,600	12,800
Note: Premium properties are calculated based on uniform OD and wall thickness.						
	Cross sectional area pipe body (in ²)	2.858	2.220	Pressure capacity (psi)	29,747	28,640
	Cross sectional area OD (in ²)	6.492	5.854	Collapse capacity (psi)	29,716	25,602
	Cross sectional area ID (in ²)	3.634	3.634			
	Section modulus (in ³)	1.602	1.228			
	Polar section modulus (in ³)	3.204	2.456			
Tool Joint (120000 material Yield Strength)			Drill pipe assembly			
2-7/8 HYHTPAC			2-7/8 HYHTPAC HI TORQUE® Connection			
	OD (in)	3.125				
	ID (in)	1.500				
	Pin tong length (in)	9.0		Adjusted weight (lbs/ft)	10.53	
	Box tong length (in)	13.0		Approximate length (ft)	31.29	
	Torsional Strength (ft-lbs)	8,500		Fluid displacement (gal/ft)	0.161	
	Max Recommended Make-up Torque (ft-lbs)	5,100		Fluid capacity (gal/ft)	0.183	
	Min Recommended Make-up Torque (ft-lbs)	3,400				
	Balance OD (in)	3.071		Drift size (in)	1.375	
	Tensile strength (lbs)	273,000				
	Tool joint/Drill pipe torsional ratio (New pipe)	0.41				
	Tool joint/Drill pipe torsional ratio (Prem pipe)	0.53				
	Min OD for premium class (in)	Not Appl.				
Minimum make-up is based on shoulder separation caused by bending.						



Torque Tension Curve: 2-7/8" 10.40 IU S-135 Premium Class Drill Pipe with 3.125 X 1.500 2-7/8 HYHTPAC HI TORQUE® Tool Joint. Curve Based on Calculation Method in API RP7G. Safety Factor =1.0



3.125 X 1.500 2-7/8 HYHTPAC Tool Joint Wear



- 1.500 in ID 2-7/8 HYHTPAC
- 80% 2-7/8" 10.40 IU S-135 Prem Pipe
- Max Recommended Make-up Torque
- ▲ Min Recommended Make-up Torque