Command Tubular Products

Heavy-weight Specs

Size: 4 1/2"
Grade: Welded 55ksi
Range: II 31.0'
Connection: CET43

Tube

	New	
	in	mm
OD	4.500	114.3
Wall thickness	0.844	21.4
ID	2.813	71.4
	ft-lbs	N-m
Torsional strength	40,098	54,400
80% Torsional strength	32,078	43,500
	lbs	daN
Tensile strength	533,043	237,700
	psi	kPa
Internal Pressure capacity	18,047	124,429
Collapse capacity	16,758	115,541
	in²	mm²
Cross sectional area body	9.692	6253
Cross sectional area OD	15.904	10261
Cross sectional area ID	6.213	4008
	in³	mm³
Section modulus	7.581	124232
Polar section modulus	15.162	248464

Tool Joint

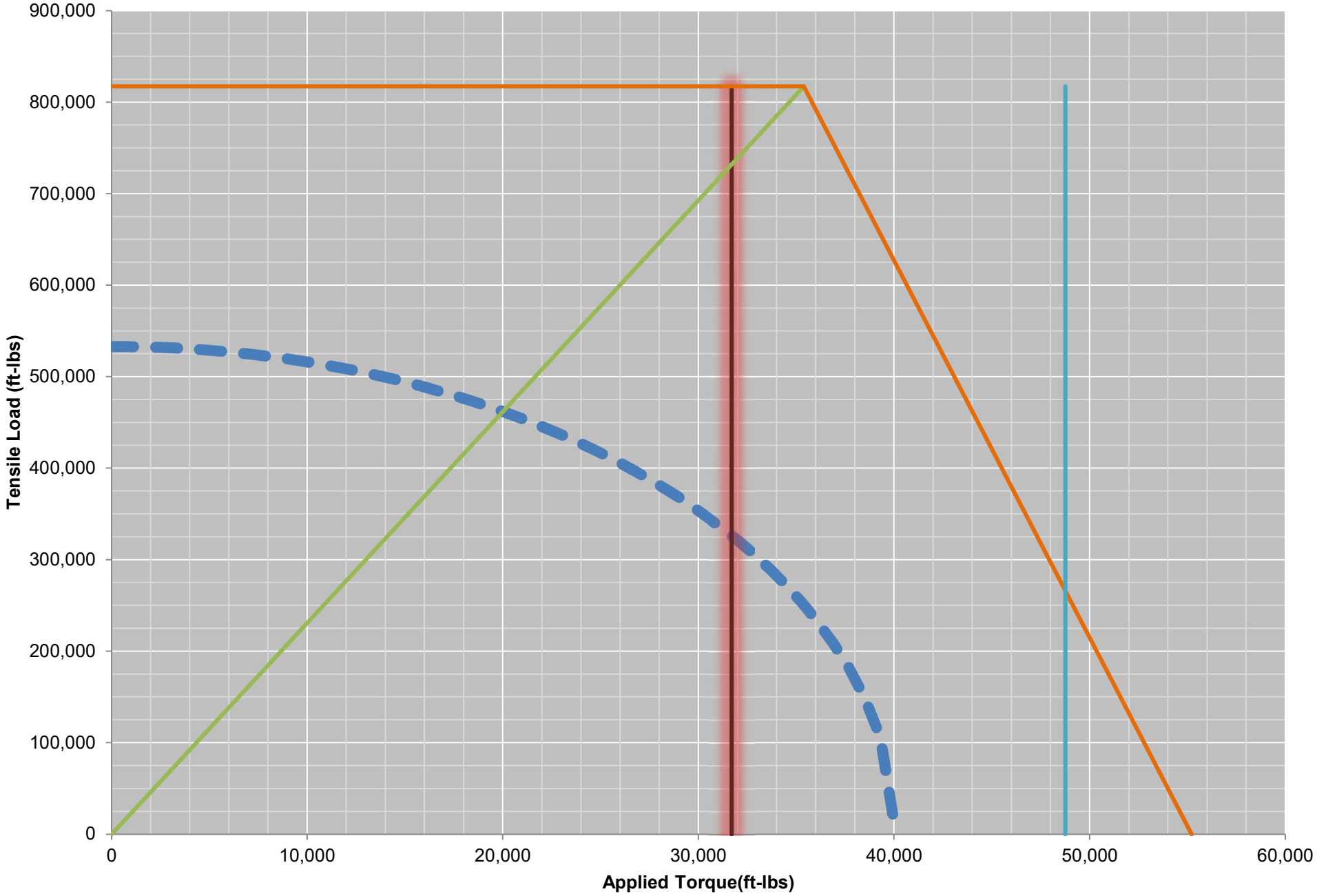
	New		Premium	
	psi	kPa	psi	kPa
Yield Strength	130,000	896,318	130,000	896,318
	in	mm	in	mm
OD	5.375	136.5	5.117	130.0
ID	3.000	76.2	3.000	76.2
Pin length	24.0	609.6	10.0	254.0
Box length	24.0	609.6	10.0	254.0
	ft-lbs	N-m	ft-lbs	N-m
Torsional Strength	48,800	66,200	37,500	50,900
Recommended Make-up Torque	31,700	43,000	26,300	35,700
Min Make-up Torque	28,100	38,100	22,100	30,000
	lbs	daN	lbs	daN
Tensile strength	817,300	364,400	513,700	229,100

Heavy-weight Assembly with Connection

	lbs/ft	kg/m
Adjusted weight	36.76	54.80
	ft	m
Approximate length	31.00	9.45
	gal/ft	m³/m
Fluid displacement	0.562	0.006983
Fluid capacity	0.328	0.004079
	in	mm
Drift size	2.6875	68

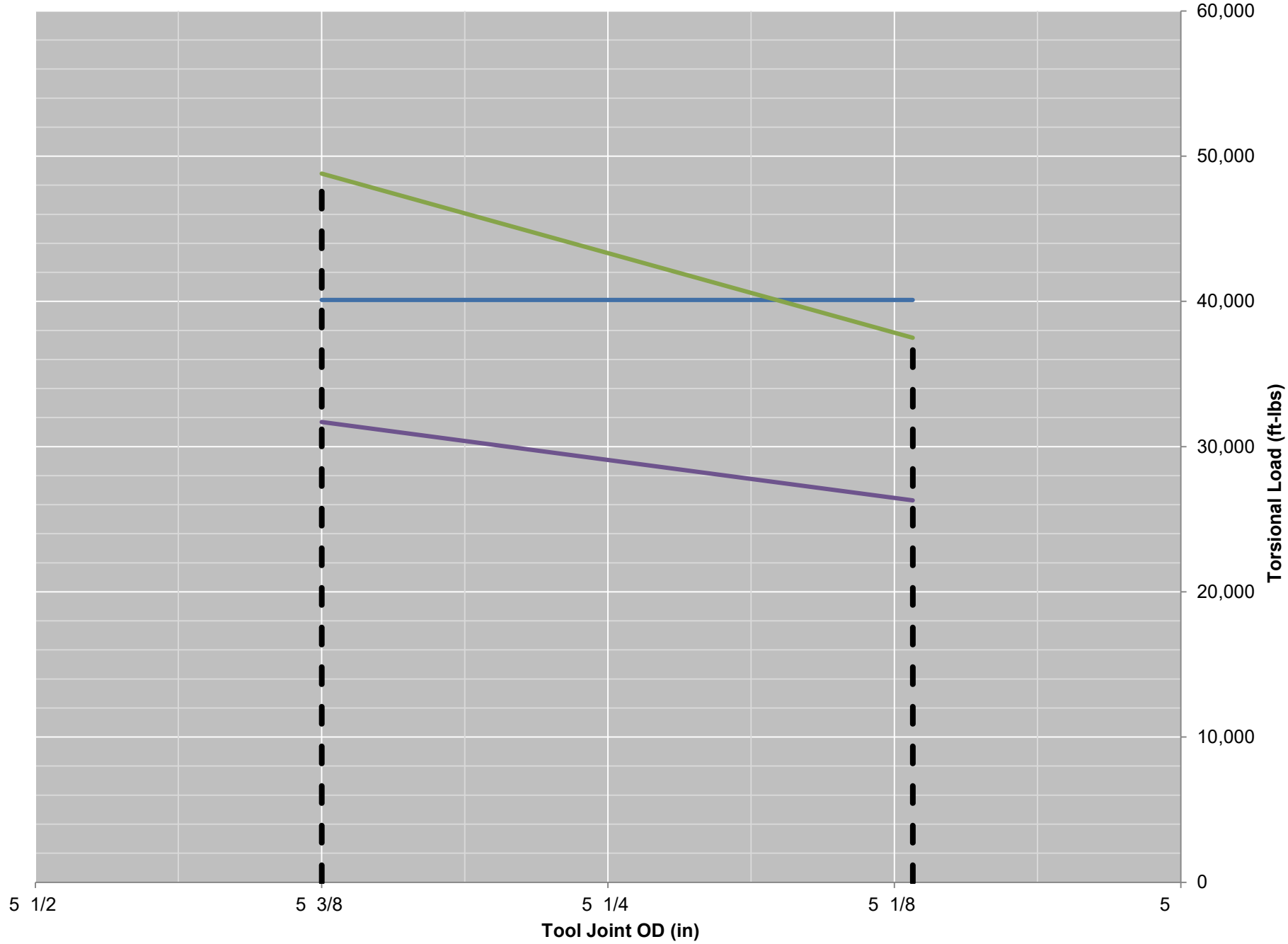
While every effort has been made to insure the accuracy of the tables herein, this material is presented as a reference guide only. Command Tubular Products cannot assume responsibility for the results obtained through the use of this material. No expressed or implied warranty is intended. All torques are based on a 1.0 friction factor.

Combined Load Curve for 4 1/2" Welded 55ksi Heavy-weight with CET43 connections



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Tool Joint Wear for 4 1/2" Welded 55ksi Heavy-weight with CET43 connections



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