## TIGHTENING TORQUE REFERENCE CHART FOR SAE AND METRIC BOLTS

NL = Not Lubricated L = Lubricated 1 lbs ft = 1.356 N\*M















SAL	Matric
<b>₩</b>	-0
0/32	-25
7/64	-(3)
1/8	→3.5
5/32	-4
3/16	- 5
7/32	- 6
1/4	7
5/16	- 8
3/8	10

COMPANY AND	113030						2000	The same of	-	100,000					
		TICHT	ENMO	TORQ	UE FOR	SAE	<b>SOLTS</b>	80%	of white	atres	gth Sy	in the	tt.		
MACTERIAL.	UNC	(\$40.00)	5/16/16	3/97/99	Strain of	102110	(B000) 52	Service.	3/4/10	12000	T-8.0	11/8/1	A THIRD.	33/016	11124
On Contract of	M.	4	-8	14	22	34	49	1166	190	194	291	452	581	762	1010
DRADE 1	- L	3	- 6	10	- 0	26	30	63	90	145	218	309	436	572	750
SRADE 2	NI.	6	72	22	35	54	20	107	191	194	291	410	581	762	1010
UMPACK 2	1.	- 5	9	10	27	40	58	81	143	145	218	309	436	572	759
manager of the second	N.	10	20	26	57	87:	126	173	308	456	743	1053	1486	1948	2505
SRADE 5/52	1.	7	15	27	43	65	94	100	235	302	557	790	7294	5401	1900
manufacture in	16.	343	28	50	87	100	177	245	436	700	1050	1488	2100	2752	3054
SPACE	L	10	21	38	60	92	133	194	326	505	767	7256	1676	2064	2343
MCTERIAL.	LAFE	15/45/200	B/107-34	200 34	Tener-205	107-30	B/167-18	50000	2047/86	2007.04	27/54	11/8/42	1500.00	33.00	11050
	14.	140	20	100	- 25	36	- 88	77	734	294	326	1000	644	868	7006
DRACET		3	7.	122	70	29	41	58	101	1900	245	347	483	661	854
course s. NL	NI.	7.	34	26	39	61	80	100	213	214	1006	5402	544	860	1936
	16	- 5	10	19	30	46	-65	91	759	160	246	342	483	651	854
	N.	70	22	40	64	98	1940 1	196	343	542	854	1161	1646	2257	2909
SPACE S/52	11.7		17	100	48	74	305	142	257	410	625	886	9234	1063	2162
course ML		16	3010	57%	90	339	100	277	485	773	5536	1060	2325	3/00	4111
	1	12	24	40	66	704	148	200	364	580	684	5255	1364	2350	3083
	1000		TEN		OUE F	DR ME	TRIC B	OUTS	80% 0	of which	stren		in lbs f		
MATERIAL	STATE	346-1	M8-125		MED-US.	MH-2	M26-2	MW-25		M22-25		M27-3	M00-35		M30-4
D.ASS 4.6	M	-3	8	1500	29	46	La Place	90	129	199	240	355	437	649	933
	1.0	3	- 0	V	21	34	53	34	104	342	190	263	357	486	625
2000	M.	The said	22	44	76	122	190	262	370	503	640	936	功力	1730	2223
CLASS 8.8	10.0	7.0	12	33	57	41	942	997	278	378	480	702	953	1267	1666
P. 444 300	NI.	15	30	64	702	- 179	279	585	544	750	940	1975	1007	2540	3063
DASS 10.9	1.	10	24	48	34	194	209	299	408	555	705	1001	5400	1905	3447
COLUMN TO THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COL	NI,	16	38	76	131	209	326	485	636	905	1100	1009	2195	2973	3878
	make s	12	29	- 56	98	757	248	338	477	649	82%	1007	1639	2230	2883
MATERIAL	PINE PITCH	M6-03%	948-1	- MOD-5	MID-13%	MARKET	M15-15	M18-15	1005-15	M22-55	M04-15	MONE	1490-15	903-15	M06-15
	N.	4.	. 9	18	31	50	10.78	710	254	200	273	393	545	733	958
DLASS 4.6	14.7		- 7	34	23	37	127	83	116	156	204	296	400	880	710
	M.	10	24	49	10	100	202	294	411	553	727	1048	1455	1954	2586
DLASS 8.8	1.0	7	10	37	63	99	151	220	308	4%	545	796	1091	1466	1917
CLASS 10:9	NI.	15	35	79	123	794	298	435	603	813	1008	1530	2136	2820	3754
	4.	11	26	54	-92	146	222	323	453	610	801	1755	1602	2182	28%
0.000	M.	17	1000	84	343	227	347	505	706	851	1040	1802	2500	3358	4383
CLASS 12:9	- 7	13	10	63	108	170	260	379	530	793	937	1365	1675	25.59	3295

# **Bolt Torque Chart Metric 316**

John H. Bickford, Michael Oliver

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