SEBMHA250104

SHOP MANUAL

KOMATSU®

HA 250
HA 270

MidWestTech | Komatsu HA250, HA270 Articulated Dump Truck Service Manual | Publication SEBMHA250104

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TORQUE LIMIT TABLE

This tables indicates standard torque limits in Nm for the various screw and bolt qualities and dimensions. The torques are valid for not oiled bolts. If nothing special torque setting is indicated, select correct torque limit from the following tables:

MF (Fine metric threads):			
Quality class: Dimension	8.8 M (Nm)	10.9 M (Nm)	12.9 M (Nm)
M 8×1	25	35	42
M10×1,25	48	68	81
M10×1	49	70	84
M12×1,5	83	117	140
M12×1,25	85	120	144
M14×1,5	135	190	288
M16×1,5	204	287	344
M18×1,5	294	413	496
M20×1,5	408	574	688
M22×1,5	546	768	921
M24×2	696	979	1170
M27×2	1000	1410	1690
M30×2	1390	1950	2340
M33×2	1860	2610	3130
M36×2	2350	3310	3970

M (Metric threads):			
Quality class: Dimension	8.8 M (Nm)	10.9 M (Nm)	12.9 M (Nm)
M 8	24	33	40
M10	47	65	79
M12	81	114	136
M14	128	181	217
M16	197	277	333
M18	275	386	463
M20	385	541	649
M22	518	728	874
M24	665	935	1120
M27	961	1350	1620
M30	1310	1840	2210
M33	1770	2480	2980
M36	2280	3210	3850

UNF (Unified fine threads):			
Quality class: Dimension	8.8 M (Nm)	10.9 M (Nm)	12.9 M (Nm)
3/8" UNF	41	59	73
7/16" UNF	66	93	115
1/2" UNF	99	141	175
9/16" UNF	142	201	250
5/8" UNF	197	279	347
3/4" UNF	344	486	606
7/8" UNF	547	772	963
1" UNF	814	1150	1430
1 1/8" UNF	1170	1660	2060
1 1/4" UNF	1620	2290	2850
1 3/8" UNF	2170	3070	3820
1 1/2" UNF	2840	4000	5000

UNC (Unified course threads):			
Quality class: Dimension	8.8 M (Nm)	10.9 M (Nm)	12.9 M (Nm)
3/8" UNC	38	54	68
7/16" UNC	61	87	108
1/2" UNC	93	131	163
9/16" UNC	133	187	234
5/8" UNC	183	259	323
3/4" UNC	322	455	568
7/8" UNC	516	729	909
1" UNC	772	1090	1360
1 1/8" UNC	1090	1550	1930
1 1/4" UNC	1530	2160	2690
1 3/8" UNC	2020	2850	3550
1 1/2" UNC	2650	3750	4680
1 3/4" UNC	4190	5930	7390
2" UNC	6290	8890	11100
2 1/4" UNC	9090	12800	16000
2 1/2" UNC	12500	17600	21900

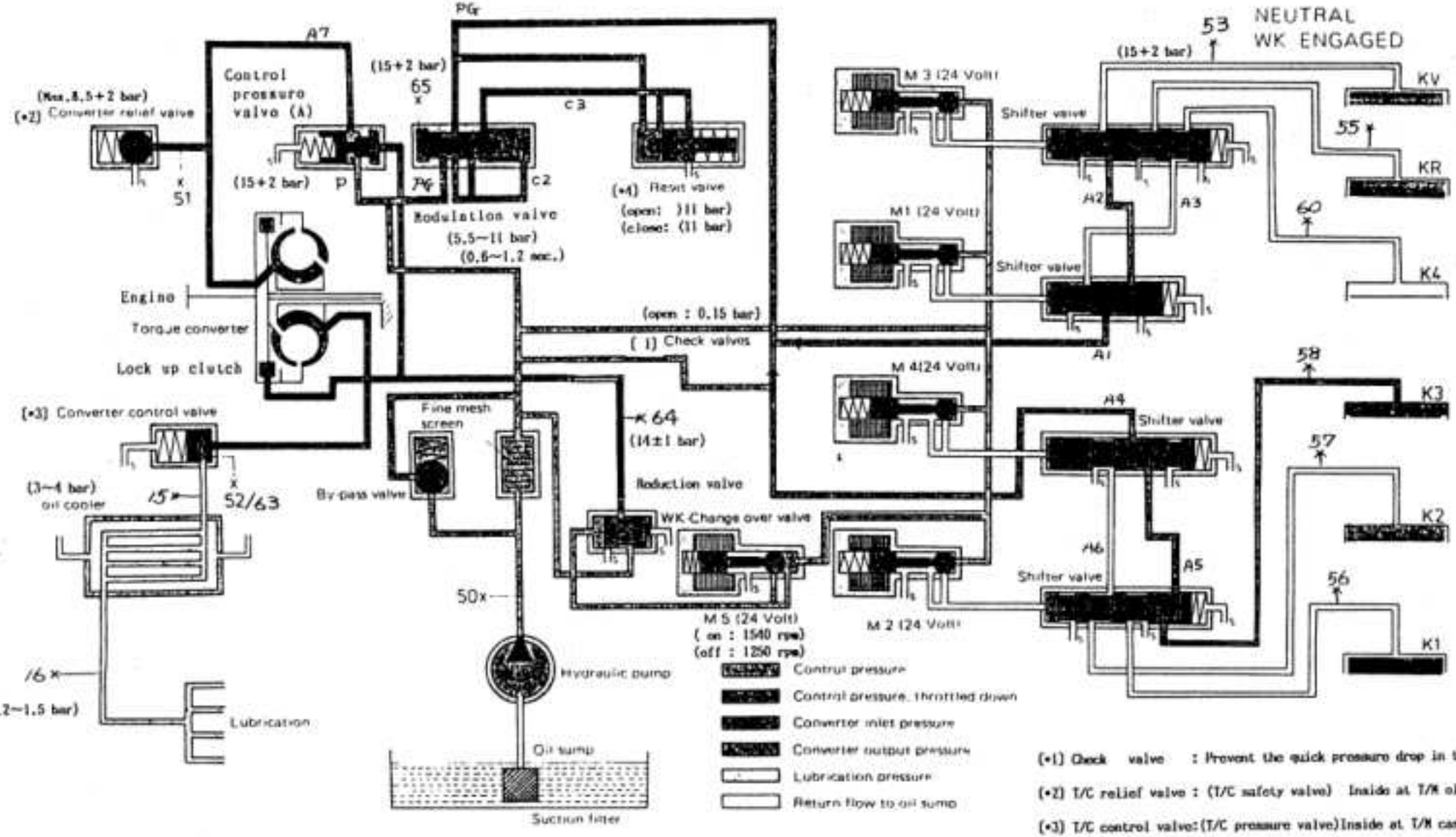
1 Nm = 0,102 kpm = 8.85 lb˙in = 0738 lb˙ft

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OIL CIRCULATION DIAGRAM WITH ELECTRIC-SHIFT UNIT AND CONVERTER LOCK-UP CLUTCH (WK)

TABLE 17



(•1) Check valve : Prevent the quick pressure drop in the clutch.

(•2) T/C relief valve : (T/C safety valve) Inside at T/M oil pump.

(•3) T/C control valve: (T/C pressure valve) Inside at T/M case.

(•4) Reset valve : After the modulation valve is open at 11 bar, move to right side and provide oil from pump to clutch quickly.

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