


TB-006

LOBESTAR® SHEAR/MIXER HYDRAULIC REQUIREMENTS

09/08/2009



	TB - 006	Rev.01
	Effective Date:	09/08/2009
	Revised From:	N/A
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- **SCOPE**

The following table is useful when sizing a pump for use in MUD operations.

LOBESTAR® SHEAR/MIXER HYDRAULIC REQUIREMENTS

LIQUID S.G.	MUD WGT LBS/GAL	PSI	DISCHARGE DISTANCE								
			50' FT/HD	75' FT/HD	100' FT/HD	125' FT/HD	150' FT/HD				
1.0	8.33	40	92	40	92	44	101	55	127	65	150
1.1	9.10	40	92	40	92	48	110	60	138	72	165
1.2	10.00	40	92	40	92	52	120	65	150	78	180
1.3	10.80	40	92	42	97	56	129	71	163	85	196
1.4	11.70	40	92	46	106	61	140	76	175	91	209
1.5	12.50	40	92	49	113	65	150	82	189	98	225
1.6	13.30	40	92	52	120	70	161	87	200	104	239
1.7	14.20	40	92	55	127	74	170	92	212	111	255
1.8	15.00	40	92	59	136	78	179	98	225	117	269
1.9	15.80	41	94	62	143	83	191	103	237	124	285
2.0	16.70	44	101	65	150	87	200	109	251	130	299
2.1	17.50	46	106	68	156	91	209	114	262	137	315
2.2	18.30	48	110	72	165	96	221	120	276	143	329

**** PSI-FT/HD IS THE REQUIRED MOTIVE PRESSURE AT THE LOBESTAR® NOZZLE BASED ON THE SPECIFIC GRAVITY (S.G.) OF WATER (1.0).**

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Viscosity Specific Gravity/Weight Function Calculation

LIQUID S.G.	MUD WGT LBS/GAL	Conversion Factor	Flow Rate w/ 500GPM Nozzle	Flow Rate %
1.0	8.33	1	500	
1.1	9.10	0.95	475	95
1.2	10.00	0.91	455	91
1.3	10.80	0.85	425	85
1.4	11.70	0.83	415	83
1.5	12.50	0.81	405	81
1.6	13.30	0.79	395	79
1.7	14.20	0.77	385	77
1.8	15.00	0.75	375	75
1.9	15.80	0.71	355	71
2.0	16.70	0.69	345	69



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