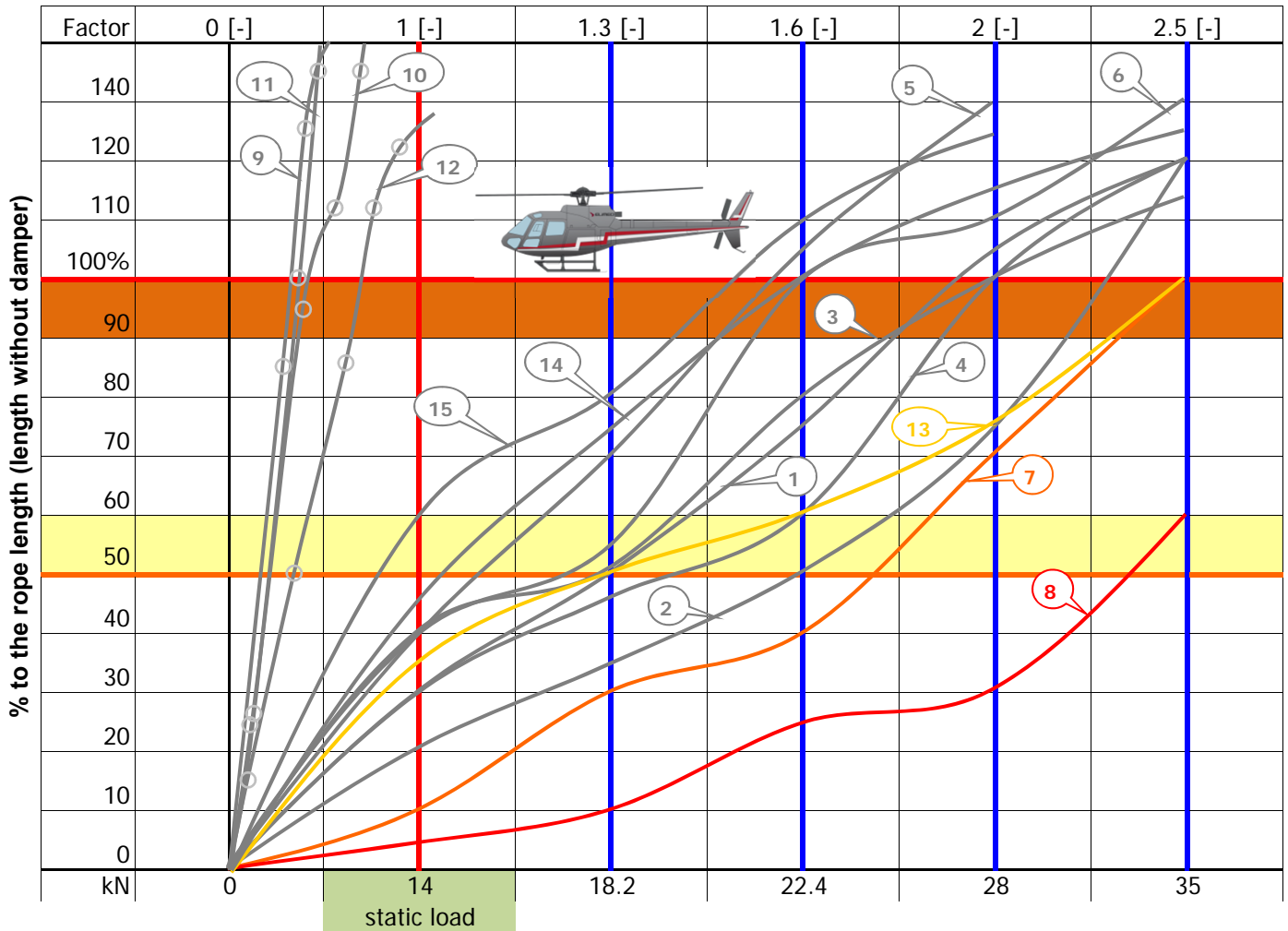


The safest rope for helicopter external sling load operation (HESLO): TLL / TLP in case of a broken link, loss of traffic load after a impact (no rope damage)

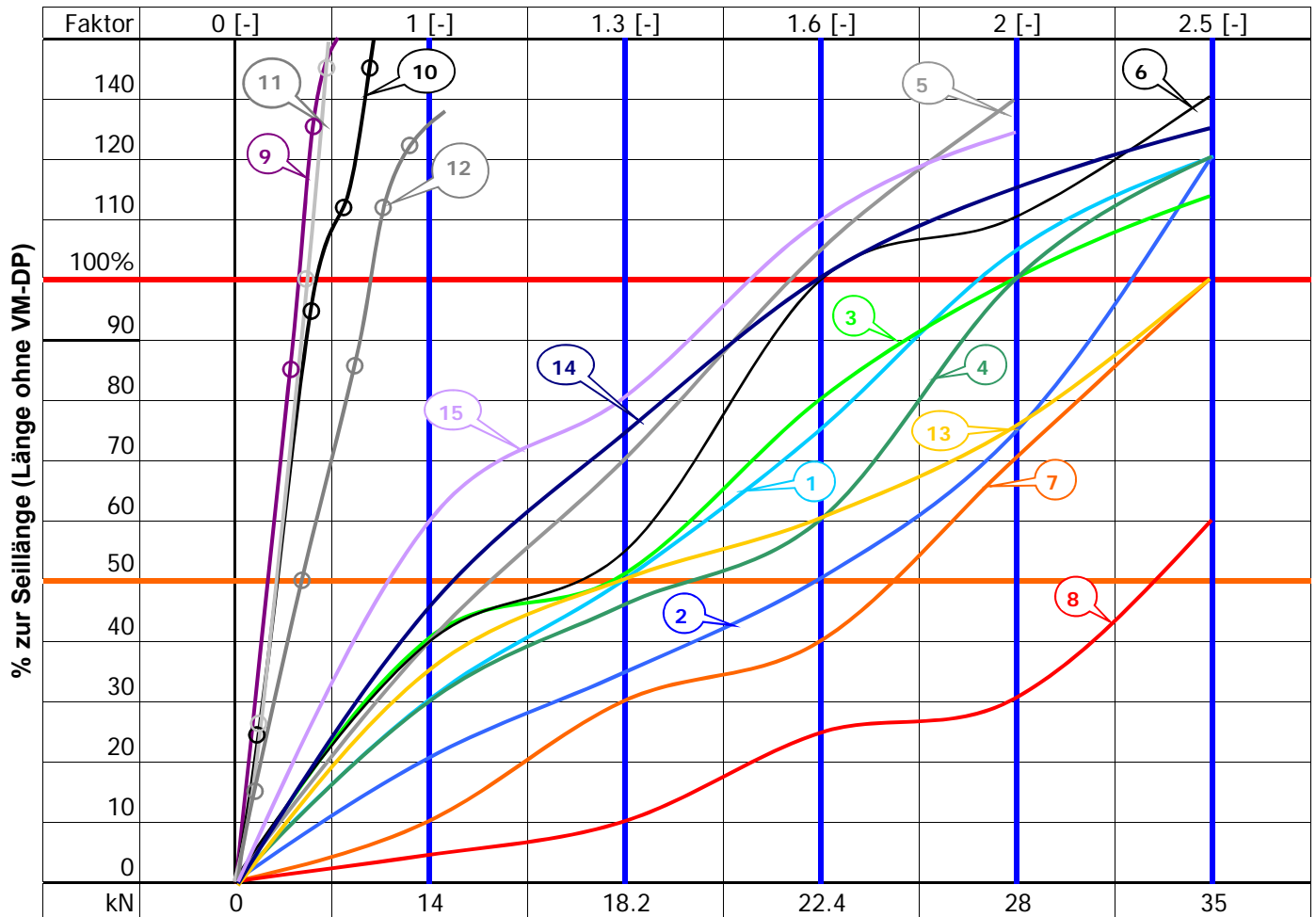
Extract Job 7, 8, 13; rope TLL_15_20 from AirWork & Heliseilerei GmbH (A&H)



Job no.	Job	Type of rope, configuration	rope length	m eff.	Legend
	1	Steel rope, non-twisting type, damper above	20	20	50 - 60 % max. acceptable upthrow
	2	Steel rope, non-twisting type, no damper available	20	20	
	3	Dyneema core-cover rope 16 mm, damper above	30	30	> 90 % write-off Crew and helicopter
	4	Dyneema core-cover rope 16 mm, no damper available	30	30	
	5	Dyneema 6x5mm, damper above	20	20	For morer details please contact Enrico Ragoni FON 0041 41 420 49 64 ragoni@air-work.com www.air-work.com
	6	Dyneema 6x5mm, no damper available	20	20	
	7	TLL_15_20, damper above	20	20	
	8	TLL_15_20, no damper available	20	20	
	9	PP Monofile 18 mm, no damper available	15	15	
	10	German Airforce multi sling-leg, no damper available; 1 leg	4	4	
	11	German Airforce multi sling-leg, no damper available; 1 leg	4	4	
	12	German Airforce multi sling-leg, no damper available; 2 legs	4	4	
	13	TLL_15_20, damper below	20	20	
	14	Steel rope, non-twisting type, damper below	20	20	
	15	Dyneema 6x5mm, damper below	20	20	

Pull test "rope turn up behaviour", 13. - 16.05.2008

Job no. 1 to 15 BGF/A&H/BWB, Warf Blohm & Voss, Hamburg



Job no.	Type of rope, configuration	rope length	m eff.	Legend
1	Steel rope, non-twisting type, damper above	20	20	50 - 60 % max. acceptable upthrow
2	Steel rope, non-twisting type, no damper available	20	20	
3	Dyneema core-cover rope 16 mm, damper above	30	30	> 90 % write-off Crew and helicopter
4	Dyneema core-cover rope 16 mm, no damper available	30	30	
5	Dyneema 6x5mm, damper above	20	20	
6	Dyneema 6x5mm, no damper available	20	20	
7	TLL_15_20, damper above	20	20	
8	TLL_15_20, no damper available	20	20	
9	PP Monofile 18 mm, no damper available	15	15	
10	German Airforce multi sling-leg, no damper available; 1 leg	4	4	
11	German Airforce multi sling-leg, no damper available; 1 leg	4	4	
12	German Airforce multi sling-leg, no damper available; 2 legs	4	4	
13	TLL_15_20, damper below	20	20	
14	Steel rope, non-twisting type, damper below	20	20	
15	Dyneema 6x5mm, damper below	20	20	