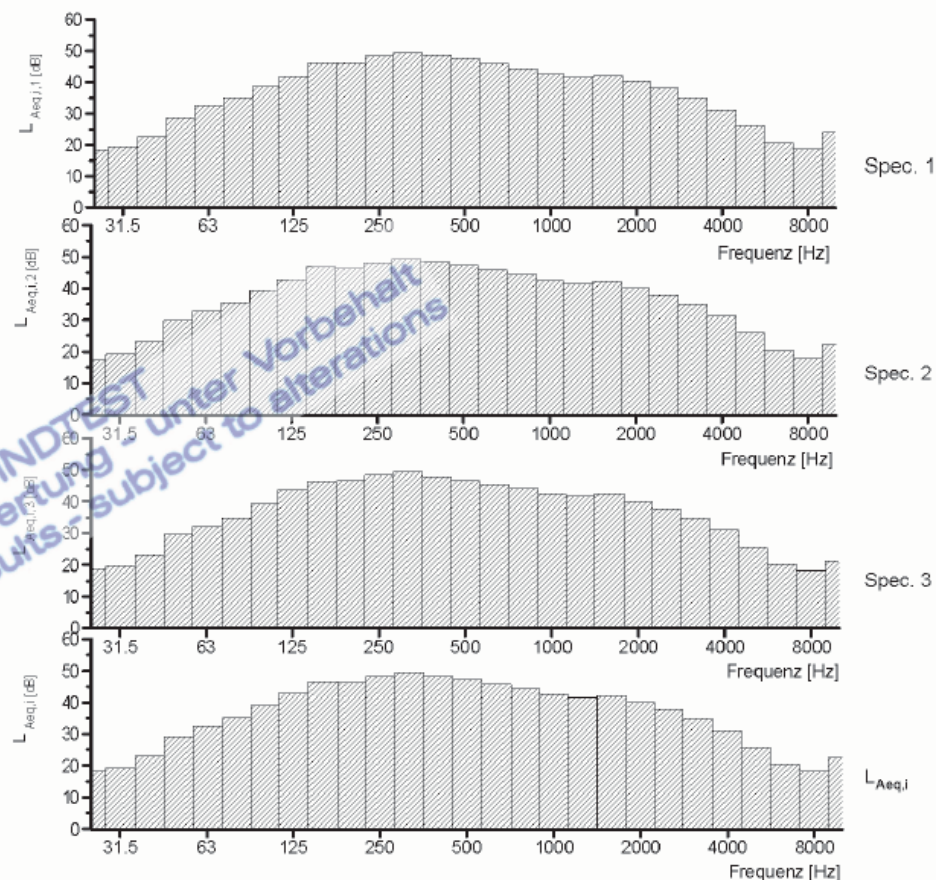


reference background sound pressure

Referenz - Schalldruck - Hintergrund

$L_{Aeq,n} = 46.6$ dB

f [Hz]	Spec. 1 [dB]	Spec. 2 [dB]	Spec. 3 [dB]	$L_{Aeq,i}$ [dB]	$L_{WA,i}$ [dB]	U_a [dB]	U_c [dB]	$L_{W,i}$ [dB]
25	18.4	17.3	18.6	18.2	64.8	0.7	2.1	109.5
31.5	19.3	19.3	19.5	19.4	66.0	0.1	2.0	105.5
40	22.7	23.0	23.0	22.9	69.5	0.1	2.0	104.0
50	28.5	29.9	29.5	29.3	75.9	0.7	2.1	106.2
63	32.5	32.8	32.1	32.5	79.1	0.3	2.0	105.3
80	35.2	35.4	34.9	35.2	81.8	0.3	2.0	104.1
100	38.5	39.5	39.3	39.1	85.7	0.5	2.0	104.8
125	42.0	42.7	43.7	42.9	89.5	0.9	2.2	105.6
160	46.2	46.8	46.5	46.5	93.1	0.3	2.0	106.3
200	46.0	46.4	46.7	46.4	93.0	0.3	2.0	103.8
250	48.2	48.1	48.3	48.2	94.8	0.1	2.0	103.5
315	49.5	49.4	49.4	49.4	96.0	0.0	2.0	102.6
400	48.6	48.3	48.1	48.3	94.9	0.3	2.0	99.7
500	47.5	47.2	46.8	47.2	93.8	0.4	2.0	97.0
630	46.0	45.7	45.4	45.7	92.3	0.3	2.0	94.2
800	44.4	44.5	44.2	44.4	91.0	0.2	2.0	91.7
1000	42.6	42.5	42.5	42.6	89.2	0.1	2.0	89.4
1250	41.6	41.4	41.7	41.6	88.2	0.2	2.0	87.6
1600	42.1	42.0	42.5	42.2	88.8	0.3	2.0	87.8
2000	40.4	40.1	39.9	40.2	86.8	0.3	2.0	85.5
2500	38.1	37.9	37.8	37.9	84.5	0.2	2.0	83.2
3150	35.1	35.0	34.9	35.0	81.6	0.1	2.0	80.4
4000	31.3	31.2	31.1	31.2	77.8	0.1	2.0	76.8
5000	26.1	25.9	25.6	25.9	72.5	0.2	2.0	71.9
6300	20.7	20.4	20.2	20.4	67.0	0.3	2.0	67.1
8000	18.5	17.9	18.2	18.2	64.8	0.3	2.0	65.9
10000	24.0	22.1	21.2	22.6	69.2	1.4	2.4	71.7



Graphic file / Grafikdatei: D:\Sinovel\Auswertung TonTrenSL1500_6

Sourcefile / Quelldatei: SL_1000_L_eng

created with WINDTEST TuNES version: IEC Ed2 / FGW 18 rev. 11.0 - 1.00 (dated 2009-10-22)



Sinovel SL1500/82

Site / Standort:

08-FD0761, Linghai, China

Measurement / Messdatum:

2010-04-23/24

Annex 2.2: Summary of analysis input and results

Graphic file: D:\SS\1500-82\Auswertung\LWA\SL1500_2324_final_result_22.07.2010

Source file: SL1500_2324_final_60_10m_BG_Hg_95

Parameters of evaluation / Auswerteparameter :

H = 70.0 m d = 4.08 m h_A = 0.0 m $P_{\text{rated}} / P_{\text{Nenn}}$ = 1.50 MW
D = 82.9 m z_0 = 0.050 m R_0 = 102.0 m $V_H(95\%)$ = 10.70 m/s
stall control / passive Leistungsregelung: No

Measurement conditions / Messbedingungen:

temperature / Temperatur = min. 7.3°C, max. 12.4°C air pressure / Luftdruck = min. 1012.9 hPa, max. 1020.3 hPa
 $V_H(95\%)$ = 10.63 m/s $V_{10m(95\%)}$ = 7.77 m/s range of the wind direction / Windrichtungsbereich = 187° - 235°

Results / Ergebnisse :

$V_{10m(95\%)}$ standardised = 7.83 m/s
 $P_{95\%}$ = 1.425 MW
 κ = 0.94
average turbulence intensity /
mittlere Turbulenzintensität = 12.6 %

V_{10m} [m/s]	U_A [dB]	U_{B9} [dB]	U_C [dB]
6	0.33	0.09	0.7
7	0.34	0.08	0.8
8	0.30	0.10	0.7
9	0.09	0.11	0.7
10	0.16	0.10	0.7

table 1: uncertainty / Tabelle 1: Messunsicherheiten

created with WINDTEST TuNES version: IEC Ed2rev. 11.0 - 1.00 (dated 2009-10-22)

V_{10m} [m/s]	$L_{Aeq,k}$ [dB]	L_n [dB]	$L_{Aeq,c,k}$ [dB]	$L_{WA,k}$ [dB]
6	57.2	46.6	56.8	103.9
7	58.0	46.7	57.7	104.7
8	57.3	46.8	56.9	103.9
9	56.9	46.9	56.5	103.5
10	57.1	46.9	56.7	103.8

table 2: results $L = f(V_{10m})$ / Tabelle 2: Ergebnisse $L = f(V_{10m})$

$V_{10m(95\%)}$ [m/s]	$L_{Aeq,k}$ [dB]	L_n [dB]	$L_{Aeq,c,k}$ [dB]	$L_{WA,k}$ [dB]
7.83	57.4	46.8	57.0	104.1

table 3: results $L = f(V_{10m(95\%)})$ / Tabelle 3: Ergebnisse $L = f(V_{10m(95\%)})$

GL Garrad Hassan



Sinovel SL1500/82

Results / Ergebnisse

Site / Standort: Linghai, China
WTGS-SNo. / WEA-SNr.: 08-FD0761
Mode / Modus: Standard (1.5MW)
Date of meas. / Messdatum: 2010-04-23/24
Standard / Messung: IEC 61400-11 Ed. 2.1
Averaging / Mittelung: 60 sec.
In charge / Bearbeiter: Dipl.-Ing. Philip Schmiedel