Sound Pressure Levels

Cogenco

CGC 124	Engine:	MAN E 2876 TE 302	Speed:	1500	RPM
Overall level	65	dB(A)			

Engine - Unsilenced

Frequency	63	125	250	500	1k	2k	4k	8k
Engine noise pressure level [dB] (at 1m)	60	79.5	88	93.1	97.7	98	95.1	90.7
dB(A) correction	-26.4	-16.1	-8.6	-3.2	0	1.2	1	-1.1
Subresult noise pressure level [dB(A)]	33.6	63.4	79.4	89.9	97.7	99.2	96.1	89.6
Noise pressure level at1m [dB(A)]	**103.1**							

Exhaust gas system unsilenced

Frequency	63	125	250	500	1k	2k	4k	8k
Soundpressure level [dB] (at 1m)	122.1	102.5	107.3	121	128.2	121.7	117.5	107.1
dB(A) correction	-26.4	-16.1	-8.6	-3.2	0	1.2	1	-1.1
Soundpressure level [dB] (at 1m)	95.7	86.4	98.7	117.8	128.2	122.9	118.5	106
Soundpressure level [dB] (at 1m)	**130.0**							

With canopy

Frequency	63	125	250	500	1k	2k	4k	8k
Engine noise pressure level [dB] (at 1m)	60	79.5	88	93.1	97.7	98	95.1	90.7
Damping canopy [dB]	-15	-23	-30	-35	-38	-39	-41	-40
dB(A) correction	-26.4	-16.1	-8.6	-3.2	0	1.2	1	-1.1
Subresult noise pressure level [dB(A)]	18.6	40.4	49.4	54.9	59.7	60.2	55.1	49.6
Noise pressure level at1m [dB(A)]	**64.5**							

Air attenuators

Frequency	63	125	250	500	1k	2k	4k	8k
Engine noise pressure level at 1m [dB]	60	79.5	88	93.1	97.7	98	95.1	90.7
Damping attenuator [dB]	-8	-15	-30	-42	-38	-44	-46	-32
dB(A) correction	-26.4	-16.1	-8.6	-3.2	0	1.2	1	-1.1
Subresult noise pressure level [dB(A)]	25.6	48.4	49.4	47.9	59.7	55.2	50.1	57.6
Noise pressure level at 1m [dB(A)]	**63.3**							

Exhaust gas system - silenced

Frequency	63	125	250	500	1k	2k	4k	8k
Soundpressure level [dB] (at 1m)	122.1	102.5	107.3	121	128.2	121.7	117.5	107.1
Soundpres. reduction resonance silencer	-8	-15	-29	-28	-27	-7	-3	-2
Soundpres. reduction absorbtion silencer	-19	-33	-38	-46	-49	-45	-43	-29
Soundpres. reduction absorbtion silencer	-19	-33	-38	-46	-49	-45	-43	-29
dB(A) correction	-26.4	-16.1	-8.6	-3.2	0	1.2	1	-1.1
Soundpressure level [dB] (at 1m)	49.7	5.4	-6.3	-2.2	3.2	25.9	29.5	46
Soundpressure level [dB] (at 1m)	**51.3**							