

**18V 2000 G26F / B76 50Hz**AIRBORNE NOISE ANALYSIS
1102 kW / 1500 rpm

TES Diesel

Drawing No.: 736772e

Date: 02.07.2014

Undampened Exhaust Gas Noise Analysis - 1/3-Octave

ENGINE TYPE: **18V 2000 G26F / B76 50Hz** ENGINE NO.: V13
POWER / SPEED: **1102 kW / 1500 rpm** TEST CELL: 117
NEA, TA-Luft, EPA Tier 2 DATE MEASURED: 16.06.2014

TURBOCHARGER: 2 x GT5523
DIAMETER OF EXHAUST GAS PIPE: DN400

MEASURING DISTANCE: 1 m
MEASURING SURFACE DIMENSION: 12.6 dB
NO. OF MEASURING POINTS: 2
PIPE DESIGN AT TEST CELL: junction, 2 x 90°, 1 x 30°, 8m straight pipe
MEASUREMENT STANDARD: ISO 6798
TOLERANCE: +5 dB for single 1/3-octave band, +3 dB(A) for total A-weighted level

Energy mean sound pressure levels of the undampened exhaust gas noise.
For project purposes only.

Energy mean free field levels.

Total: L = 123.6 dB LA = 114.6 dB(A)

f [Hz]	12.5	16	20	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500
LpF [dB]				78.0	83.4	89.2	96.1	99.6	102.2	117.2	120.0	107.8	112.7	107.9	109.9	109.8	107.4

f [Hz]	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	12.5k	16k	20k
LpF [dB]	105.5	104.5	105.4	104.1	100.6	99.5	98.4	94.8	89.5	85.9	82.4	69.4	56.7			

