



18V 2000 G26F + B76
AIRBORNE NOISE ANALYSIS
1102 kW / 1500 rpm - TAL / EPAll / switchable

TES Diesel
Drawing No.: 736611e
Date: 05.12.2013

Engine Surface Noise Analysis - 1/3-Octave

ENGINE TYPE: **18V 2000 G26F + B76** ENGINE NO.: V13
POWER / SPEED: **1102 kW / 1500 rpm** TEST CELL: 127
DATE MEASURED: 22.10.2013

TURBOCHARGER: 2 x Garrett GT5523
INTAKE AIR OPENING: Paper filters without housing

MEASURING DISTANCE: 1 m
MEASURING SURFACE DIMENSION: 18.2 dB
NO. OF MEASURING POINTS: 12
SOUND PROPAGATION: Free-Field
MEASUREMENT STANDARD: ISO 6798
TOLERANCE: +5 dB for single 1/3-octave band, +2 dB(A) for total A-weighted level.

Energy mean free-field levels of the airborne noise that is emitted by the engine surface.
For project purposes only.

Energy mean free field sound pressure levels. Total: L = 105.9 dB LA = 103.6 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]		54.0	55.4	67.5	60.1	60.7	67.2	67.8	71.5	86.4	81.7	83.8	83.0	82.1	88.0	86.0	89.4

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]	89.1	90.9	88.7	89.2	90.0	90.0	90.2	89.7	91.8	92.7	89.7	86.6	88.0	103.1	93.0	

