



Application Data

Engine Manufacturer	Caterpillar
Engine Model	3516C-HD
kW Rating	2500 KW
Engine Displacement	4764.73 in ³
Maximum Exhaust Flow	19048.7 CFM
Maximum Exhaust Temperature	921.9 °F
Maximum Silencer Back Pressure	26.9 in H ₂ O

Customer Data

Project Name	500-006171 Silencer Information	Date	11/4/2020
Customer	Mid-America Engine		
Contact	Jake Coleman		
Phone Number	901-355-3871		
Street			
City			
State			

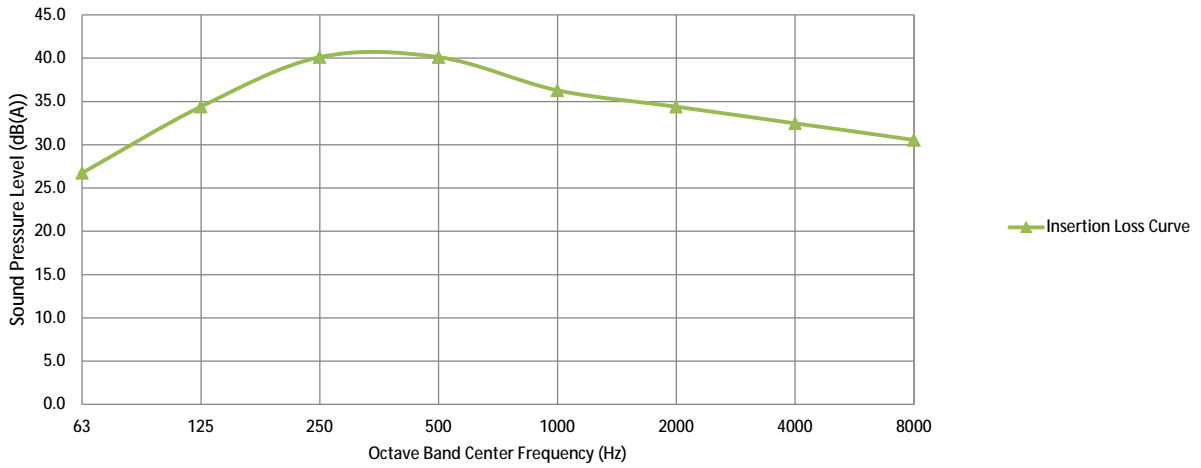
Engine Exhaust Acoustics

Frequency	63	125	250	500	1000	2000	4000	8000	Overall
Insertion Loss dB(A)	26.7	34.4	40.1	40.1	36.3	34.4	32.5	30.6	33.6
Silencer Backpressure in H ₂ O									11.6

Silencer Sizing

Part Number	Nominal Diameter	Shell Length	Inlet Size	Outlet Size
500-006171	42"	156"	2x 10" Pipe	20" Pipe

Expected Silencer Performance



The above performance curve represents the theoretical sound reduction expected from the silencer specified based on the provided raw engine noise data. Ambient conditions, pre and post silencer piping and other contributing factors beyond our control may affect the actual resulting sound performance of the silencer.