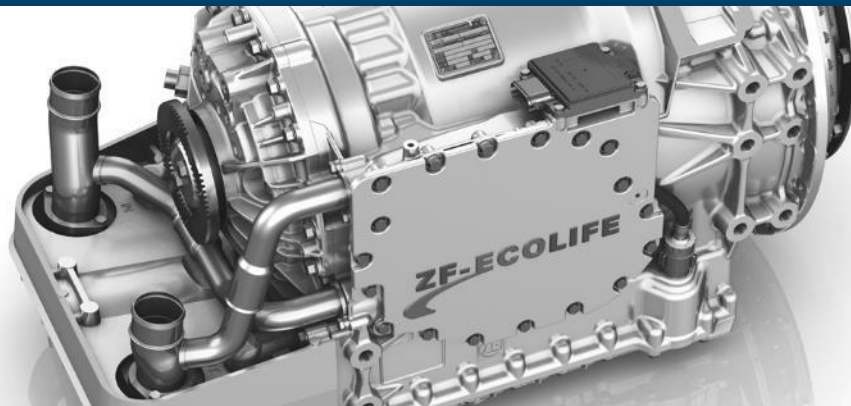




EcoLife for Natural Gas-Powered Buses

Commercial Vehicle Technology



Natural Gas Drive in Buses

What Is Different?

Special features of Euro 6 natural gas engines

- Otto principle (as with gasoline engines), externally supplied ignition
 - Power regulation via throttle valve
-
- Carburation upstream of the cylinder through gas injection into the suction tube
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- Based on the fuel, very low exhaust gas emissions compared to diesel
 - Higher exhaust gas temperatures due to ignition temperatures of approx. 650 °C (diesel: approx. 250 °C) and lambda 1 control



Effects on the driveline

- Lower noise level
 - Lower efficiency than diesel engines
-
- Slower engine response to load due to longer paths from carburation to the combustion chamber
-
- Lower untreated emissions (virtually soot-free)
 - Simple exhaust gas treatment using a three-way catalytic converter is sufficient for Euro 6
 - Higher coolant temperature

EcoLife: The Best Choice – Also for Natural Gas-Powered Buses

General advantages with EcoLife

- 6 speeds with small gear steps and large ratio range
 - Intelligent shift strategy thanks to TopoDyn Life
 - Torque converter with special characteristics
-
- Dual cooling system with two heat exchangers, transmission and oil are protected better



Benefits with gas drives

- Engine always runs in the optimal load and speed range: better for dynamics and fuel consumption, even with slower response to load
-
- No limitation of operational capability even with higher coolant temperatures
 - Oil change intervals of 180,000 km and higher possible

A Global, Successful Partnership: EcoLife With Gas Drives

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