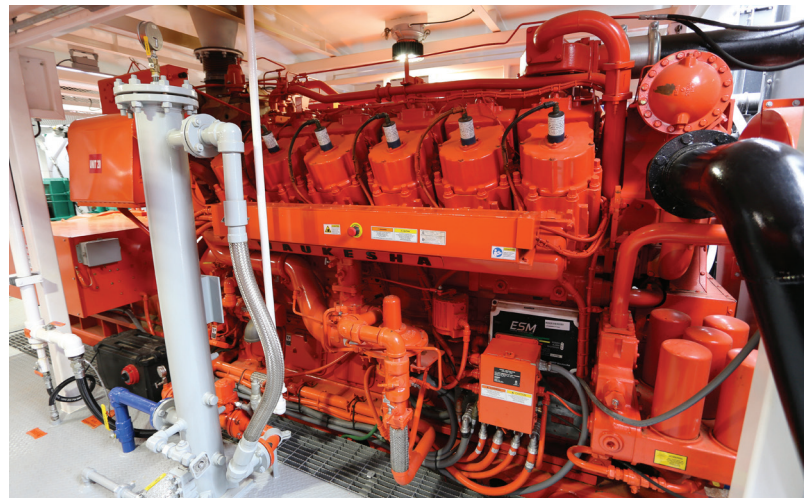


# NATURAL GAS ENGINES

Sustainable Robust Power

## APPLICATION

Patterson-UTI's fleet of rich burn Natural Gas Engines are the premier offering when looking to lower emissions and reduce diesel fuel costs. These Natural Gas engines produce more power than traditional diesel engines while utilizing the same footprint on location. Our rich burn Natural Gas Engines enable our customers to achieve their emission goals without sacrificing the needed power for their Operations.



## FEATURES

- Rich Burn Engines with fuel flexibility across a wide BTU range
- High tolerance for ambient temperatures and altitude conditions
- HMI Panels with controls and diagnostics
- Three-way catalysts to reduce critical emissions
- Critical grade exhaust silencers to significantly reduce ambient noise
- Fuel line manifold with easy flex connections between skids
- Fire and gas detections system with automatic gas shutoff as well as emergency stop button locations
- Operations Support with a fuel consumption analysis and savings assistance

## BENEFITS

- Reduce Operating costs by utilizing nearby wellheads or pipelines
- Permitting ease with compliance to federal EPA emissions standards
- Cleaner emissions than Diesel Power
- Transient performance with diesel-like load acceptance
- 10% overload capability allows for a higher power limit setting: 26% more power compared to diesel engines in the same HP class
- Expertise in-house at Patterson-UTI
- 99% lower NOx and PM emissions compared to diesel
- 3 Waukesha engines = 3.75 Diesel engines
- Longer intervals between required maintenance compared to diesel engines