



HYBRID DIESEL-ELECTRIC SYSTEM

PROPULSE®

PROPULSE



Power. On The Move.
Oshkosh Defense® ProPulse®
Hybrid Diesel-Electric System.

Designed for the performance demands of heavy-duty vehicle applications, the Oshkosh Defense® ProPulse® hybrid diesel-electric system dramatically improves fuel economy up to 20 percent and serves as an on-board generator with enough output to power an entire airfield or hospital.

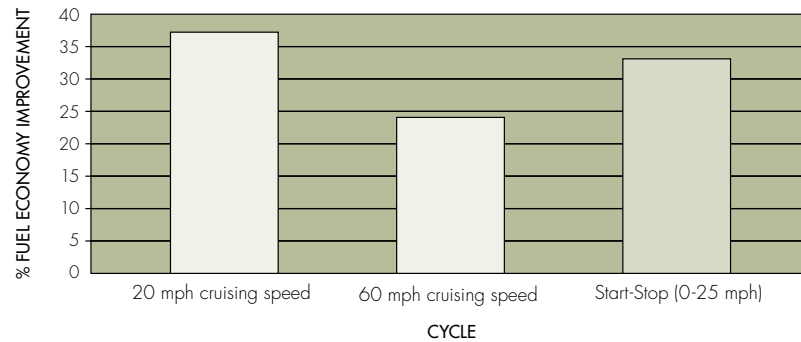
Already proven effective on the Oshkosh HEMTT A3 and MTRV, ProPulse technology uses a modular series-hybrid arrangement to simplify the transmission of power to the wheels. It enables significant fuel economy because of a tailored engine control strategy. And life-cycle costs are dramatically reduced because the full electric system lowers torque throughout the drivetrain and regenerative braking increases brake life.

The ProPulse hybrid diesel-electric system is unmatched in performance – powering heavy-duty vehicles through the most difficult terrain while providing efficient, effective solutions to assure mission success.

PROPULSE® | HYBRID DIESEL-ELECTRIC SYSTEM

- Diesel engine powers a large electric generator which distributes power to each axle module
- Each axle module is driven independently by a dedicated motor controlled from its own power converter, thus providing redundancy
- Allows for more compact, lighter weight vehicle design
- On-board generator can deliver up to 120 kW of AC power for external operations
- Greater versatility and efficiency
- Greater fuel economy
- Reduced emissions

M1120 DIESEL-ELECTRIC HEMTT A3 FUEL ECONOMY TEST RESULTS



Comparison against conventional driveline vehicle
Preliminary Oshkosh internal test data



OSHKOSH® STRIKER™



PIERCE® HOMELAND SECURITY



MCNEILUS® ADVANCED HEAVY HYBRID PROPULSION SYSTEM



OSHKOSH MTRV OBVP



OSHKOSH TECHNOLOGY DEMONSTRATION VEHICLE



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