Case Study – Bombardier Transportation

Application

Vlocity 160 DMU (Diesel Multiple Unit)

Specification

- Passenger train with diesel drive designed to reach 160Km/hr
- Cummins QSK19R rated at 563kW @ 2000rpm
- Roof module for traction engine and genset engine cooling
- Underfloor charge air module for traction charge air and fuel cooling

Benefits

- Whole of life cooling platform with validated performance beyond 35,000 hrs of operation
- Maximum train availability with world class performance indicators

Solution

- Fully customised cooling solution comprising
 - Copper/brass heat transfer cores for engine coolant circuits
 - Ultraseal technology for charge air cooling at elevated turbo temperatures
 - Full stainless steel super structure, built to last 30 years
 - Pin Fin technology for fuel cooling
 - Electric fan drive with all wiring terminated to quick fit plugs

Volume

Over 150 trains in full service since 2006.





