

Night Cat 40 – What Sets It Apart

<u>Required</u>	<u>Industry Standard</u>	<u>IBC's Innovation</u>	<u>Benefits to SOF</u>
Personnel Shock and Vibration Mitigation	Focus on Modified Seating and/or adding Floor Coverings	Hull Design: Twin V - Technology Systems Approach to Shock Mitigation Shock Reduction Tubes Shoxs Seats™ w/ Torsion Bar Technology	Reduces "...fatigue time by 300%" and "...50% decrease in acceleration" Absorbs & neutralizes hull vibration; less vibration transmitted to crew S_{ed}(8) values under 3.0 MPa Isolates crew & passenger from 'seat travel limit' shock.
Vibration Mitigation Reliability and Sustainment	Straight-6 Cyl Diesel Engines	Customized Twin Duramax V-8 Marine Diesel Engines from Innovation Marine Corp	Purpose-Built, High Performance engine V-8 design balances operation and reduces high frequency vibration to craft occupants Lighter-weight and much quieter than typical 6-Cyl motor Improves performance and reduces propulsion system strain; increases inherent durability
Craft Performance Maneuvering and Seakeeping	Water Jets	Powershift Xtreme Marine Transmission (XMT) Multi-Drive Two Speed Transmission From Coan Engineering Twin V-8 Duramax Engines	Controls Trim in any Sea State - improves responsiveness and reduces crew/occupant stress; 20% more efficient than water jets (increasing range & fuel) Immediate Throttle Response (no lag time)
Signature	Standard OEM Apps	Customized SR Appliqué Kit	Risk Reduction - design is modeled before selection
Range	Standard power plants	Twin V-8 Duramax Engines	Range exceeds 400n.m. @ 42 knots. Duramax engines provide exceptional horsepower at lower RPM; improving range and efficiency