

2009 International 4300 - Hybrid

4x2 Straight Truck with Eaton Diesel Electric Hybrid Drive System



Photo is not representative of specs

Applications-

The Eaton Diesel Electric Hybrid drive system is well suited for applications that require frequent starts and stops such as city delivery and pick-up and delivery operations.

Hybrid System Configuration-

Eaton uses a “parallel” hybrid system configuration that adds or blends electric motor torque with a conventional drivetrain to enable diesel operation in the most fuel-efficient rpm range for a given speed. The system is also designed to contribute the maximum level of electric power where there is the maximum opportunity to reduce emissions. The regen braking feature captures energy normally lost during braking and uses it to re-charge the Hybrid batteries.

Fuel Economy-

Fuel economy comparisons are dependent on duty cycle, driver behavior, operating conditions and overall changes in the vehicle specification from conventional to Hybrid drivetrains. Improvements up to 50% have been documented. Several OEMs have submitted 30% to 50% fuel economy savings to the IRS. Several customers have publicly reported low to mid 30% improvement in their day to day operations.

Emission Reduction-

The “blending” of the electric and conventionally generated power in the Hybrid system reduces fuel consumption and lowers vehicle emissions. Third party testing found a 21% reduction in HC, 13% reduction in CO and 3% reduction in NOx during a typical P&D drive cycle.

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Typical Specifications:

Cab:

- 25,999 lbs.

Dimensions:

- Wheelbase 254"
- CA 186"
- Set-back 40"

Cab:

- All steel welded
- 111" BBC

Engine:

- Maxxforce DT - 225 HP @2600 RPM - 560 lb/ft torque @ 1400 RPM

Transmission:

- Ultrashift - 6 speed - (EH-8E306A-CD) - hybrid drive units
- Electronic shift controls - without EPTO capability

Front Axle:

- I-beam type (1-100SG)
- 10,000 lbs. capacity

Front Suspension:

- Taper leaf springs with shock absorbers
- 10,000 lbs. capacity

Rear Axle:

- Single reduction with 190 wheel ends (17060S)
- 17,000 lbs. capacity
- 5.29 ratio

Rear Suspension:

- 18,500 lbs. capacity with 4,500 lbs. auxiliary rubber spring vari-rate

Frame:

- High strength, low alloy steel
- 80,000 PSI yield

Fuel Tanks:

- (1) - 70 gallon, non-polished aluminum
- Mounted right side under cab
- 19" depth

Tires:

- Front - G149 RSA - 11R22.5 x 14 PR
- Rear - G182 - 11R22.5 x 14 PR

Wheels:

- 22.5 x 8.25 steel disc
- 10-Hole hub pilot, with steel hubs

Cab Interior:

- Driver seat - air suspension, vinyl, high back with integral headrest, 2-position front cushion adjustment, -3 To +14 degree seat back adjustment, air lumbar support
- Passenger seat - vinyl, two person, integrated headrests in both occupants positions, under-seat storage compartment
- AM/FM stereo with CD player
- Dual electric, 2-speed intermittent windshield wipers

Cab Exterior:

- Chrome grille
- Oval fog lights with H3/55W halogen bulbs
- Marker lights - cab mounted LED
- Mirrors - (2) black powder coated, 7.44" x 14.84", breakaway type with 102" wide spacing, with 7.44" square convex both sides, thermostatically controlled with all heated heads

Cab Paint:

- White

Wheel Paint:

- White