



E2E Co., Ltd.

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Re-Powering with Omnitek/Perkins CNG Engine - Performance Data

Truck Type

Semi-Trailer 3 Axles, Total Weight 45 Tons (Full Load)

Routing and Load Behavior

Total Routing Distance = 330 Kms +/- 15 Kms

No Load @ 15 Tons with driving distance 165 Kms

Full Load @ 45 Tons with driving distance 165 Kms

Overall Fuel Consumption @ 330 Kms

Diesel (Record from previous engine Isuzu Rocky 195HP) = 110 - 120 Liters

NGV (Omnitek/Perkins CNG Dedicated Engine 200 HP) = 120 - 135 Kgs

Fuel Savings @ 330 Kms

Based on Maximum fuel consumption;

Diesel = $120 \times 25.49 = 3,142.8$ THB or 9.52 THB/Km

NGV = $135 \times 8.5 = 1,147.5$ THB or 3.5 THB/Km

Saving = $3,142.8 - 1,147.5 = 1,995.3$ THB or 63.5%

Thailand Reference Data as of 28 Apr. 06

Diesel Price = 26.19 THB/L, NGV = 8.5 THB/Kg

Currency = 1USD: 39.00 THB



The Solution for Diesel to NGV Technology



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Engine Detail

CNG Dedicated Engine

Model 5.8 Liter Omnitek/Perkins

Features and Benefits

Delivers up to 200 hp with superior torque (up to 460 ft-lbs), for quick response, improved acceleration and pulling power. Designed with top quality components for improved heat dissipation and high durability. The advanced engine management system assures good power, low emissions and fuel consumption.

General Data

Power and Torque: 200 hp / 460ft-lbs
(hp/torque mapped to meet critical payloads)
Combustion System : 6 Individual Ignition Coils
Turbo After Cooler : Air to Air
Engine Type : Four cycle, In-Line Six
Aspiration : Turbocharged
Compression Ratio : 11.0:1
Displacement : 5.8 Liters
Power Steering Pump: Included
Air Compressor: Included



Fuel System

- Stoichiometric, Closed-loop, Adaptive Learning Technology
- Computerized Management System, Electronic Fuel Injection
- Fuel Type: CNG

Transmission System

- Manual Gear (4 forward and 1 reverse)
- Gear Ratio 7.00 / 3.80 / 1.94 / 1.00 (forward) and 6.60:1 (reverse)
- Hydraulic Clutch



Warranty

- 1 yr or 100,000 Kms



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