

#### **Bruce Kurtt**

**Vice President – West Region** 

August 28, 2013







# What Really Matters?

- Fuel Economy
- Driver Satisfaction/Retention/Productivity
- Quality, Safety and Environmental Care
- Reliability
- Industry Leading Technology
- Training to Support it All, On Line and Free



### **VHD**



- D11 and D13 Engines
- Very High Spec Content



## **VNX**

- D16
- 500 to 600 HP
- 20# FA
- 52# RA
- Haul Truck





### **VNM**

- D11 & D13
- Class 7 & 8
- No Frame Ext.
- Small Dump
- Straight Truck





#### **Volvo Engine Lineup**



#### **D11**

Lightweight Heavy-duty Performance

- 6 Engine Ratings
- 355 405 HP
- 1250 1550 Lb-Ft Torque

#### <u>D13</u>

Power and Efficiency for Every Application

- 17 Engine Ratings
- 375 500 HP
- 1450 1850 Lb-Ft Torque

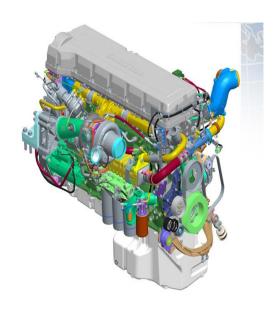
#### <u>D16</u>

Big Block Power

• 500 – 600 HP 1850 – 2050 Lb-Ft Torque



#### **Volvo 2014 GHG Engines**



2014 GHG Green House Gas engines will be available Jan. 2014 offering Better fuel economy, reliability and serviceability than it's predecessors.

#### How?

- New piston, liner, and oil scraper ring for improved fuel economy.
- New injector for improved fuel economy.
- Clutched air compressor for improved fuel economy.
- New cylinder head for improved cooling.
- New 2 piece valve cover to improve serviceability on the 13L.
- Shimless rocker for improved serviceability on the 13L.
- Updated Ladder frame and cylinder block for improved reliability.



## **Alternative Fuels?**

- You will need to have a Plan to Reduce GHG
- We Offer on-line Cummins 9L & 12G Engines
- We Introduced DME
- We Support CNG, LNG and DME for Fuel
- Many new Tank Configurations
- Keep an Open Mind

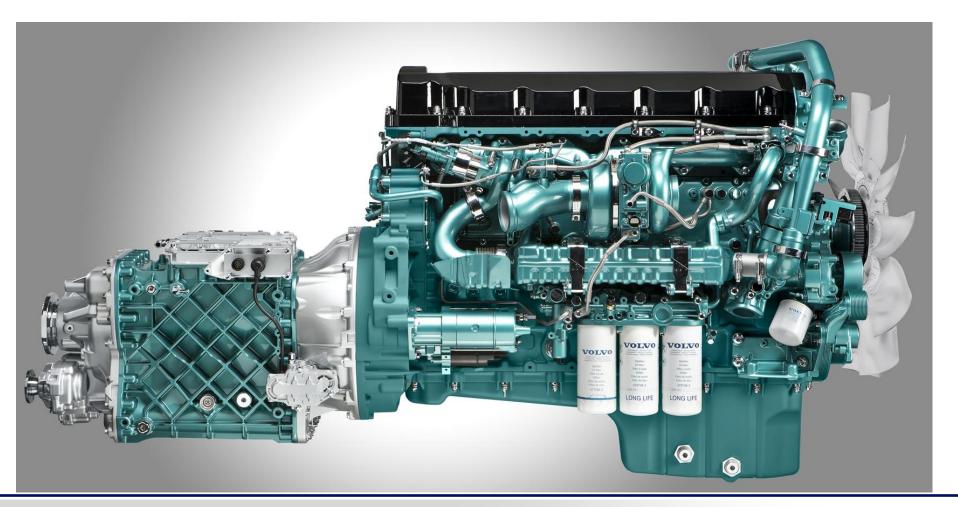


# **DME – Dimethyl Ether**

- Convert Methane and Carbon Dioxide to DME
- Small- Scale Regional Fuel Production
- Those with Methane will Purchase First
- GHG Reduction Solution
- Engine Power and Efficiency like Diesel Fuel
- Simple Tanks 75 PSI / normal Temperature



## **Volvo Engines** with **I-Shift Transmission**





#### Volvo I-Shift 12 Speed, 2 Pedal **Automated Mechanical Transmission**

**Overall** Reduction

15.04:1 for OD,

14.94:1 for Direct

28% Gear Steps

Single Countershaft

**High Torque Capacity** 





### **Integrated Engine Brake Interface**

#### **Engine Cruise Control, Engine Brake, & Transmission Integrated Together for Seamless Performance**

- Off
- "A" Automatic
  - Eco-Roll Enabled
  - Brake Cruise Control Enabled
- 1,2,3 Manual I-VEB Engine Brake Control
- "B" I-Shift Brake Program Shifts Down for Maximum Retardation
- Plus / Minus switch on end for Brake Cruise Control function





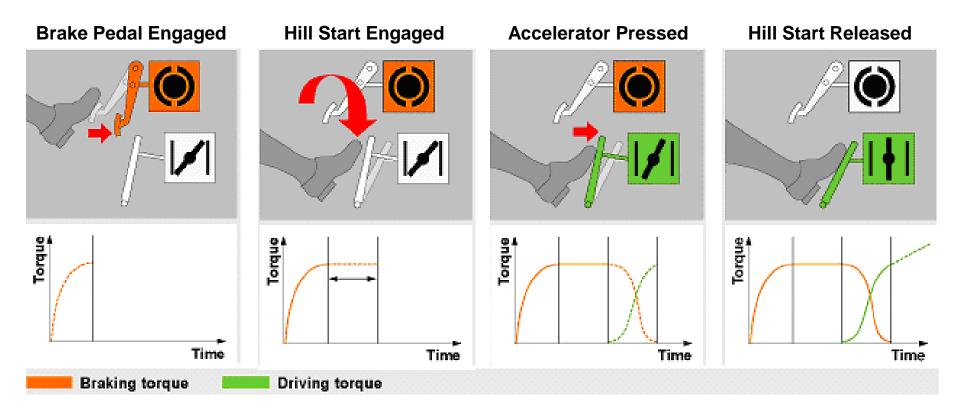
#### Grade Sensor Allows I-Shift To "See" What's Ahead

## **Informed Technology**

- I-Shift has a Grade Sensor, so it knows how steep the grade is and if it's changing
- I-Shift continuously monitors the grade, vehicle speed, acceleration, torque demand, weight, rolling and air resistance
- I-Shift continuously predicts and selects the most efficient utilization of the engine over the next rolling 30 second period.



#### **Hill Start Assist**





#### **I-Shift**

#### Volvo's automated manual transmission

- improves performance
- optimizes shifting
- weight savings = fuel savings
- fuel savings up to 1.56%
  \$1,045 truck/year
  (\$3.75/gallon, 7.0 mpg, 125,000 miles)





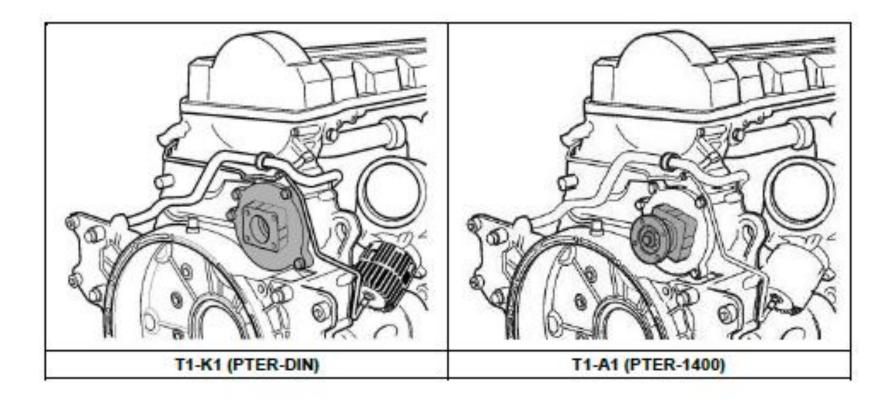
### **Available PTO's**







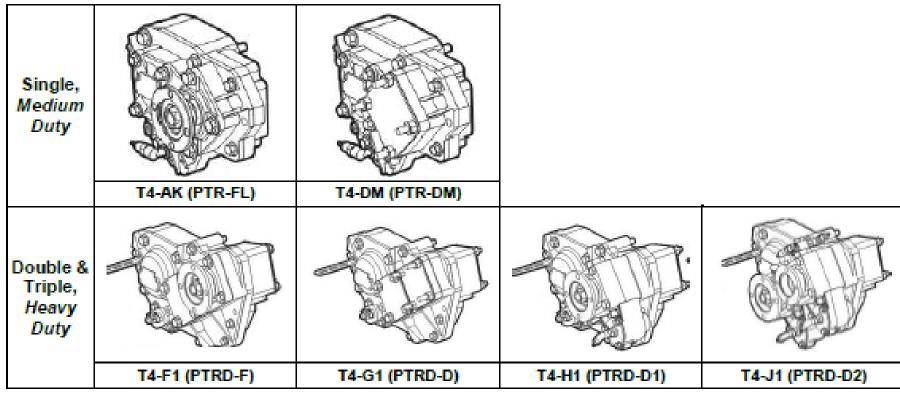
## Rear Engine Mounted PTO's (REPTO)





## **I-Shift PTO Options**

#### I-Shift Transmission Mounted Power Take-Offs (4.1)



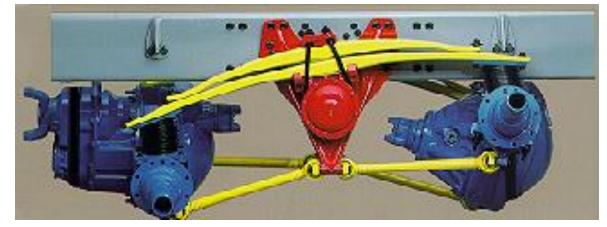


### **Volvo T-Ride Suspension**

- -40k 58k
- Extreme articulation 17"
- All-wheel differential lock up









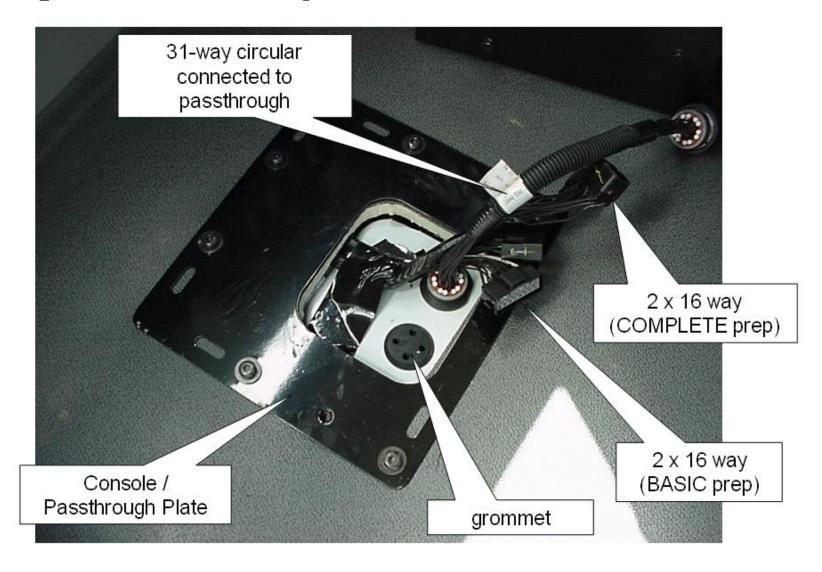
## Clean Back of Cab Configuration





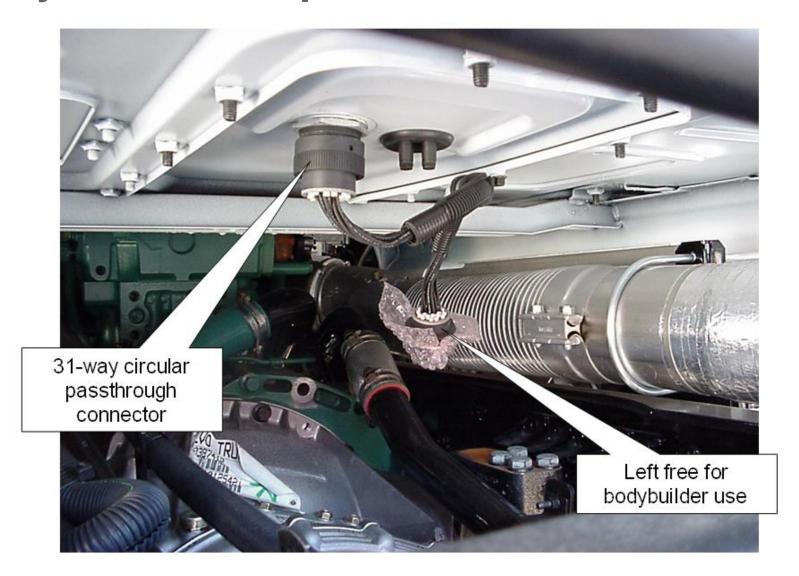


#### **Body Builder Prep**





## **Body Builder Prep**





### **Remote Diagnostics**

A major service innovation from Volvo

1. Real Time Connected Vehicle

2. Real Operators Call for Resolution

- 3. We Explain the Options
- 4. We Schedule Support
- 5. We Measure Success
- 6. Standard on all New Volvo Trucks





#### QR code reader



- Standard on all Volvo vehicles built after April 1, 2013
- Dealers and Customers can open repair orders right from the vehicle
- Provides quick and accurate check in with timestamp
- Can be performed from any smart device
- QR code can be generated for any asset in ASIST
- Allows inspections to be performed from vehcile using smart device
- Efficient, Consistent and Accurate check in throughout Volvo dealer network

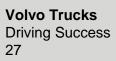


# Recap

- Efficient
- Innovative
- Technological
- Durable
- Reliable
- Quality, Safety and Environmental Care











## **Thank You**

Questions?