



MASTER DEALER
for



Propane Injection for
Turbo Diesel Engines

What is the Diesel Magnum?

Propane Injection System

- 20% Propane
- 80% Diesel

Increases

- Fuel Mileage - As high as 60%
- Horsepower - As high as 30%

Decreases

- Harmful Emissions - As low as 60%
- Overall Fuel Costs - As low as 50%

How Does It Work?

- **Propane Injection**
 - At Turbocharger Inlet
- **Mircoprocessor Control**
 - Turbo Boost
 - EGT (Exhaust Gas Temperature)
- **Safety Enhancements**
 - EGT
 - LPG Pressure
 - Oil Pressure
 - DM Components
LPG Pressure

Safety Shutdown

Should the system fail.....

- Diesel Magnum Automatically Shuts Down
- Indicator Lamp Illuminates
- Vehicle reverts to Diesel operation

Applications

Turbo Diesel Engines

- Automobiles
- Buses
- Passenger vehicles
- Recreation vehicles
- Luxury watercraft
- Light duty trucks
- Heavy duty trucks

Railroads

Barge Lines

Agriculture

- Tractors
- Combines
- Irrigation pumps

Construction Equipment

- Earthmovers
- Loaders

Power Generators

Military Equipment

Cost Comparison

Mack Truck 12.0 Liter 350 H.P.

Driving Route: Nigua, Cementera, Punta Cana/ Nigua = 530 KM

Cost of Operation without D.M.

Gallon Diesel : US \$2.92

Cost of Operation with D.M.

Gallon Diesel : US \$2.92

Gallon Propane: US \$1.28

Cost to Complete the Route

70 Gallons of Diesel = US \$204.40

Cost to Complete the Route

37 Gallons of Diesel = US \$108.04

25 Gallons of Propane - US \$32.00

US \$140.04

Savings per day using Diesel Magnum = US \$64.36

Savings per month using Diesel Magnum = US \$1,287.20

Savings per year using Diesel Magnum = US \$15,446.40

Cost Comparison

Mercedes Benz 12 Cylinder Earthmover

Cost of Operation without D.M.

Gallon Diesel : US \$2.85

Cost of Operation per Hour

12 Gallons of Diesel = US \$34.20

Cost of a 12-hour Work Shift

US \$34.20 x 12 hours = US \$410.40

Cost of Operation with D.M.

Gallon Diesel : US \$2.85

Gallon Propane: US \$1.28

Cost of Operation per Hour

6 Gallons of Diesel = US \$17.10

2 Gallons of Propane = US \$2.56

US \$19.66

Cost of a 12-hour Work Shift

US \$19.66 x 12 hours = US \$235.92

Savings per hour using Diesel Magnum = US \$14.54

Savings per 12-hour using Diesel Magnum = US \$174.48

Savings per 5-day week using Diesel Magnum = US \$872.40

Savings per 4 week period using Diesel Magnum = US \$3,489.60

Projected Savings over a year using DM = \$45,365.80



 **Wirtgen** R335

2000 DCR

Cost Comparison

12 CYLINDER CATERPILLAR GENERATOR SET

800 KW GENERATOR @ 1,000 AMP LOAD

Cost of Operation without D.M.

Gallon Diesel : US \$3.41

Cost of Operation per Hour

52 Gallons of Diesel = US \$177.32

Cost of Operation with D.M.

Gallon Diesel : US \$3.41

Gallon Propane: US \$2.27

Cost of Operation per Hour

36 Gallons of Diesel = US \$122.80

7 Gallons of Propane = US \$15.89

US \$138.69

Savings per hour using Diesel Magnum = US \$38.63

Savings per 24-hours using Diesel Magnum = US \$927.12

Cost Comparison

K19 CUMMINS GENERATOR SET

500 KW GENERATOR

Cost of Operation without D.M.

Gallon Diesel : US \$3.41

Cost of Operation per Hour

15.1 Gallons of Diesel = US \$51.49

Cost of Operation with D.M.

Gallon Diesel : US \$3.41

Gallon Propane: US \$2.27

Cost of Operation per Hour

8.51 Gallons of Diesel = US \$29.02

2.80 Gallons of Propane = US \$6.36

US \$35.38

Savings per hour using Diesel Magnum = US \$16.11

Savings per 24-hours using Diesel Magnum = US \$386.64

TEST DATA FOR 2003 DETROIT 60 SERIES

WITHOUT
LPG

WITH LPG

ENG. OIL PRESSURE (PSI)	46	46	46	45.5	45.5	45.5	46.5	46.5	46.5
ENGINE COOLANT TEMP (F)	201	201	201	203	203	203	202	202	202
BOOST PRESSURE (PSI)	31.9	31.9	31.9	31.9	31.9	31.9	7.8	7.8	7.8
ENGINE SPEED (RPM)	1807	1807	1807	1790	1790	1790	1963	1963	1963
POWER (H.P.)	317	317	317	308	308	308	368	368	368
% FRONT LOAD (%)	100	100	100	100	100	100	100	100	100
FRONT WHEEL SPEED-MPH	56	56	56	55	55	55	60	60	60
REAR WHEEL SPEED-MPH	0	0	0	0	0	0	0	0	0
% SLIP (%)	7	7	7	8	8	8	8	8	8

Cascading Benefits

- **Green**
- **Fiscally
Conservative**
- **Rapid ROI**

Benefits

Increased Horsepower

- Propane - enhances diesel fuel burn
- Utilizes more BTU's in diesel fuel
- Longer Power Stroke

Reduced Emissions

- Greater than 60% overall

Reduced Fuel Costs

- Propane 30 - 50% <Gas, Diesel
- Savings of 30 - 50%



DMT

On-Site Training and Installation



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