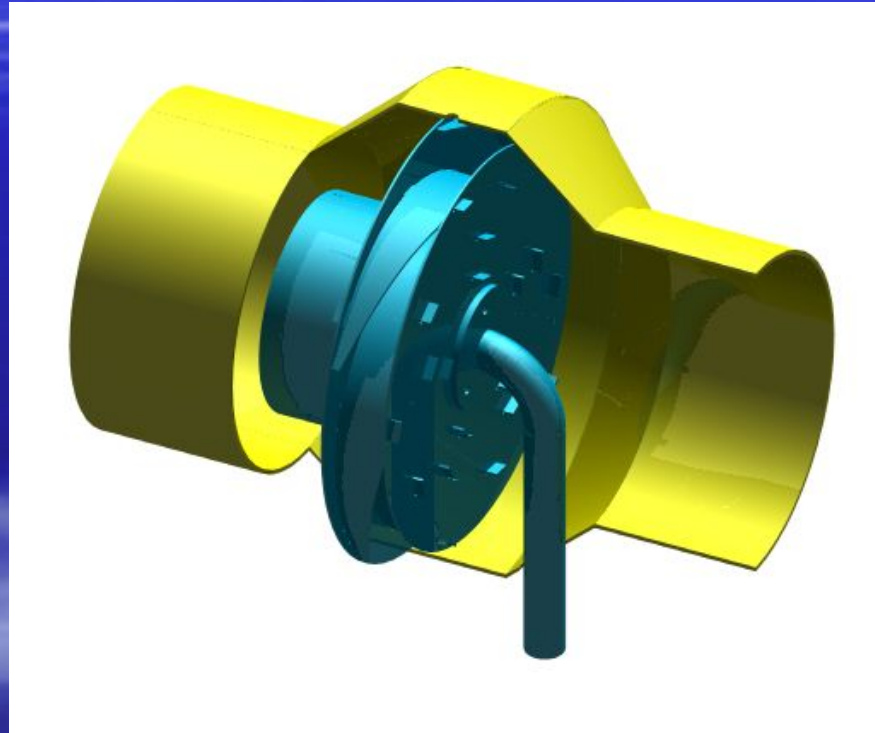




LPG/Diesel Fuel Substitution Systems

The Patented Diesel/Gas Mixer



Patent Protection

Title: “Improvements relating to
compression ignition engines”

Application Number: **WO2005064144**

US patent: **US2004206329**



Installation Examples







 The mixer



 The LPG tank



Product Benefits

-  Lower emissions
-  Fuel cost reduction of at least 15%
-  Smoother running engine
-  Less engine wear
-  No engine modification required
-  Choice of substitution fuels (LPG or CNG)

Fuel Saving Examples

Heavy vehicles

Example 1: Prime mover with 12liter 430HP engine travelling 5000km/week on average

Distance travelled per year:		260,000 km
Fuel price:	Diesel	1.13 \$/liter *
	LPG	0.36 \$/liter *
Fuel consumption:	Diesel	2.00 km/ltr
	Dual fuel	1.85 km/ltr
Diesel replacement rate:		28 %
Fuel savings:		16.5 %
		9.36 \$/100km
Annual fuel savings:		22,414 \$

* Based on July 06 fuel prices (Diesel \$1.45, LPG \$0.50 less GST and rebate)

Example 2: B-Double with 16liter 620HP engine travelling 8000km/week on average

Distance travelled per year:		416,000 km
Fuel price:	Diesel	1.13 \$/liter
	LPG	0.36 \$/liter
Fuel consumption:	Diesel	1.40 km/ltr
	Dual fuel	1.36 km/ltr
Diesel replacement rate:		31 %
Fuel savings:		20.76 %
		16.58 \$/100km
Annual fuel savings:		66,320 \$

* Based on July 06 fuel prices (Diesel \$1.45, LPG \$0.50 less GST and rebate)

Fuel Saving Example

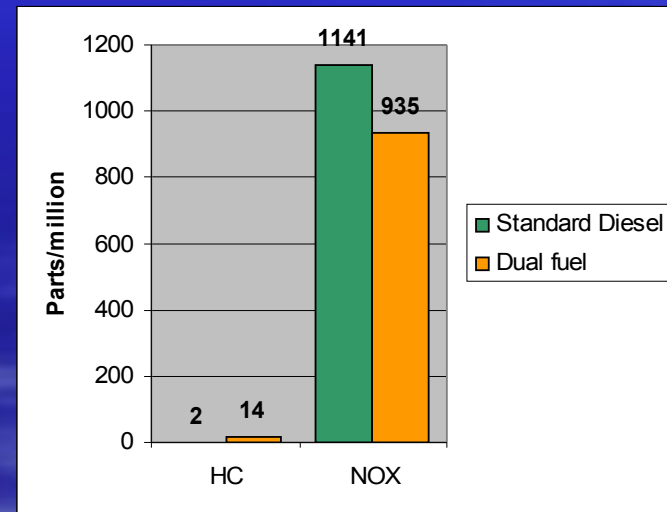
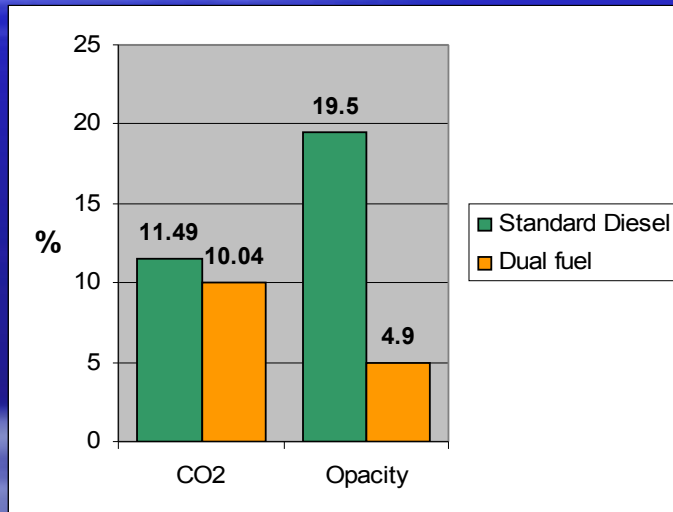
4WD

Example 3: Mitsubishi Pajero NP 4WD
travelling 400km/week on average

Distance travelled per year:		20,800 km
Fuel price:	Diesel	1.45 \$/liter
	LPG	0.50 \$/liter
Fuel consumption:	Diesel	9.52 km/ltr
	Dual fuel	8.92 km/ltr
Diesel replacement rate:		58 %
Fuel savings:		31.2 %
		5.50 \$/100km
Annual fuel savings:		1,100 \$

* Based on July 06 fuel prices (Diesel \$1.45, LPG \$0.50)

Pajero Emission Tests



Pajero Installation



Scientific Validation

The simplicity of this system and the potential for significant reductions in greenhouse gases from our transport sector should be enough to support this project.

Manfred Zockel

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