For Immediate Release

- Michelin Challenge Bibendum 2003 -Isuzu Wins 2 Gold Medals with the World First-ever * DI Diesel-cycle, ONG-Powered Ef Light-duty Truck



Tokyo, September 26, 2003 -

The world first- ever, direct-injection, diesel-cycle, mono-fuel, CNGpowered ELF light duty truck from Isuzu Motors Limited made its successful competition at the Michelin Challenge Bibendum 2003, capturing 2 Gold Awards and 1 Slver Award. The prototype DI-CNG ELF was developed in collaboration with Westport Innovations, Inc. of Canada.

With the DI-ONG ELF truck, Isuzu achieved successful marriage between superb technological advantage of direct-injection diesel engine and ONG technology, realizing excellent fuel economy and low pollution at the same time. Winning gold medals in the efficiency and emissions categories and silver medal in the noise category speaks for itself how environmentally positive Isuzu's DI-ONG ELF truck is.

Compressed-Natural Gas Technology and its Future Potential -

Conventional ONG-powered engines employ Otto-cycle, widely used in the gasoline-powered engines. The use of ONG as fuel makes it possible to achieve virtually zero PM emission, while NOx emission can be reduced as much as 95% as compared to the 1998 Emission Standards. When it comes to the thermal efficiency, however, the ONG-powered engines are on par with gasoline-powered and slightly less efficient than conventional diesel engines. Unlike the Otto-cycle type, the direct-injection, diesel-cycle ONG engine as installed in Isuzu ELF truck realizes greater fuel efficiency and CO2 emission reduction on top of better thermal efficiency, without compromising deanliness of emissions.

By utilizing a 4.5-liter, in-line four engine as the base engine, Isuzu developed variable turbo-charger, EGR, oxidizing catalytic converter and urea SCR catalyst for NOx. Electronically controlled common rail injection system and hot-surface ignition system has been developed through a joint development cooperation between Isuzu and Westport Innovations, Inc. of Canada. All these advanced environmentally positive technologies combined, Isuzu's DI CNG-powered ELF realizes ultra efficient, super clean emission performance that achieves the Japanese ULEV standards.

Specifications:

1. Displacement:	4.5-liter
2. Engine configuration:	In-line, 4-cylinder
3. Power:	100kw (134hp) / 2,200rpm
4. Torque:	500Nm (369lb-ft) / 1,000rpm
5. Load capacity:	2.0 ton (4,500lbs)
6. GWR	6.0 ton (14,076lbs)
7. Fuel storage system:	2-bottle CNG cylinder
8. Storage pressure:	250bar
9. Maximum speed:	130km/h
10. Operational range:	300km

* Source: Isuzu Motors Limited, a/o Sept. 2003

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Supplement Information:

>> Isuzu and the ONG-powered ELF Truck

To cope with the global environmental issues, e.g., depletion of fossil fuels and conservation of global environment, Isuzu made an early start in grappling with the development and dissemination of low-pollution, environmentally positive vehicles that utilize alternative energy.

One of the key engineering focus have been the use of natural gas. In 1993, Isuzu obtained accrediting for the CNG-powered ELF from then-Transport Minister, and began on

Isuzu will make incremental efforts in the development and dissemination of clean diesel and low pollution, environmentally positive vehicles that run on alternative fuel, and promote conservation of global environment.

ELF ONG truck registration and market share

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003*
Isuzu	8	5	12	32	134	376	359	743	1544	1655	166
Industry	14	31	44	72	205	526	581	1059	2124	2431	241
Isuzu Share (%)	57.1	16.1	27.3	44.4	65.4	71.5	61.8	70.2	72.7	68.1	68.9

* (Apr - Jun) 3-month actual for 2003

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