

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	Millbrook Proving Ground Ltd	
	Issue No: 007 Issue date: 27 April 2011	
	Vehicle Test Facilities Millbrook Bedford MK45 2JQ	Contact: Mr Colin Chinnery Tel: +44 (0)1525 408221 Fax: +44 (0)1525 403420 E-Mail: colin.chinnery@millbrook.co.uk Website: www.millbrook.co.uk
Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
	PERFORMANCE TESTS	
PETROLEUM & PETROLEUM PRODUCTS		Documented In-House Procedures and/or Standard Specifications involving the use of standard engines
Diesel	Injector nozzle coking	CEC-F-23-T-01(Peugeot XUD9) CEC-F-98-08 (Peugeot DW10)
Gasolines	Valve sticking of gasoline fuels	CEC-F-16-A-96
	Inlet valve cleanliness (IVC)	CEC-F-05-A-93 (MB M102E)
	Deposit forming tendency on intake valve and in combustion chambers of gasoline engines	CEC-F-20-A-98 (MB M111)
REPLACEMENT CATALYST, EMISSIONS, OR FUEL ECONOMY REDUCTION DEVICES (for spark & compression ignition engined vehicles)	Vehicle exhaust emissions and fuel economy measurements	EC Regulation 103 Type I testing in accordance with Regulation 83 and 70/220/EEC
ELECTRIC & HYBRID VEHICLES	Vehicle exhaust emissions, fuel consumption, CO ₂ , range, and energy consumption	EC Regulation 83 EC Regulation 101 70/220/EEC



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MOTOR VEHICLES AUTOMOTIVE COMPONENTS AND EQUIPMENT RIGIDISED VEHICLES (VEHICLE BUCKS) TRAIN SEATS AIRCRAFT SEATS	<p>PERFORMANCE TESTS (cont'd)</p> <p>Frontal, rear, and side impact simulation Using a HyGe Sled (Some tests include the use of anthropomorphic dummies)</p> <p>Temperature range: 19 °C to 23 °C (ambient) Acceleration: 2 g to 250 g Load: up to 45 kN Pressure: 0.001 bar to 6 bar Displacement: up to 500 mm Voltage: 2.5 mV to 100 V Time: 0.1 ms to 1 s</p>	ECE 11.02 ECE 17.07 ECE 44.03 AV/ST 9001 EASA CS23.562 EASA CS25.562 EASA CS27.562 EASA CS29.562
MOTOR VEHICLES	<p>Frontal, rear, and side full scale impact testing (Some tests include the use of anthropomorphic dummies)</p> <p>Temperature range: 19 °C to 23 °C (ambient) Acceleration: 2 g to 2000 g Load: up to 200 kN Pressure: 0.001 bar to 6 bar Displacement: up to 500 mm Voltage: 2.5 mV to 100 V Time: 0.1 ms to 1 s Speed: 1 m/s to 25 m/s</p>	ADR69/00 ADR73/00 ADR29/00 ADR72/00 CMVSS208 CMVSS214 Contran Resolution 220/07 Contran Resolution 221/07 Contran Resolution 255/07 Contran Resolution 463/73 Contran Resolution 486/74 ECE R12.03 ECE R32.00 ECE R33.00 ECE R94.01 ECE R95.02 FMVSS208 FMVSS214 FMVSS301 96/27/EC 96/79/EC Article (18) (TRIAS 47)



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<p>AEROSPACE COMPONENTS AND EQUIPMENT AUTOMOTIVE COMPONENTS AND ASSEMBLIES TRAIN COMPONENTS AND ASSEMBLIES PLASTIC COMPONENTS AND PRODUCTS STRUCTURES, COMPONENTS AND FITTINGS</p>	<p>ENVIRONMENTAL TESTS (Non- explosive items)</p> <p>CLIMATIC</p> <p>HIGH /LOW TEMPERATURE (Constant & cyclic) Max temp: 100 °C Min temp: -40 °C Max chamber size: 3 m x 3 m x 2 m</p> <p>HIGH TEMPERATURE (Solar Radiation) Thermal effects only Max temp: 115 °C Max power per controller: 1100 W Radiation area: 2 m x 1 m</p> <p>HIGH HUMIDITY (Steady state) Temp range: 38 °C to 60 °C Humidity range: 50 %RH to 95 %RH Max chamber size: 3 m x 3 m x 2 m</p> <p>DYNAMIC</p> <p>VIBRATION Ambient temperature</p> <p>Electromagnetic vibrators - Sinusoidal & random spectra Frequency range: 5Hz to 2kHz Max thrust: 24kN (Vertical axis only)</p>	<p>BS EN 60068-2-1:1993(1994) BS EN 60068-2-1:2007 BS EN 60068-2-2:1993 BS EN 60068-2-2:2007 Documented In-House Procedures, Customer Specifications, and International Standards</p> <p>BS EN 60068-2-5:2000 Documented In-House Procedures, Customer Specifications, and International Standards</p> <p>BS EN 60068-2-78:2002 IEC 68-2-56:1998 Documented In-House Procedures, Customer Specifications, and International Standards</p> <p>BS EN 60068-2-6: 1996 BS EN 60068-2-6: 2008 BS EN 60068-2-64: 1995 BS EN 60068-2-64: 2008 Documented In-House Procedures, Customer Specifications, and International Standards</p>
	<p>END</p>	