

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>2498</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>UTAC UK Ltd</p> <p>Issue No: 033 Issue date: 28 November 2024</p>	
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<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
PETROLEUM & PETROLEUM PRODUCTS	PERFORMANCE TESTS	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) Issues 24, 24.1,25 and 26 CEC-F-98-08 (Peugeot DW10) Issues 6, 6.1, 6.2, 7, 8, 9, 10, 11,11.1 and 12
Gasolines	Valve sticking of gasoline fuels	CEC-F-16-A-96 Issues 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9 and 6.0
	Inlet valve cleanliness (IVC)	CEC-F-05-A-93 (MB M102E) Issue 12.1 and 12.2
	Deposit forming tendency on intake valve and in combustion chambers of gasoline engines	CEC-F-20-A-98 (MB M111) Issues 12, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6 and 12.7
MOTOR VEHICLES AUTOMOTIVE COMPONENTS AND EQUIPMENT RIGIDISED VEHICLES (VEHICLE BUCKS) AIRCRAFT SEATS	Frontal, rear, and side impact Simulation Using an acceleration Sled (Some tests include the use of anthropomorphic dummies)	EASA CS23.562 Amend 5 EASA CS25.562 Amend 27 EASA CS27.562 Amend 9 EASA CS29.562 Amend 10



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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: 6 m x 4 m x 2.9 m</p> <p>HIGH TEMPERATURE (Solar Radiation) Thermal effects only Max temp: 115 °C Max power per controller: 1120 Wm⁻² Radiation area: 2 m x 1 m</p> <p>HIGH HUMIDITY (Steady state) Temp range: 20 °C to 60 °C Humidity range: 30 %RH to 95 %RH Max chamber size: 3 m x 3 m x 2 m</p> <p>DYNAMIC</p> <p>VIBRATION</p> <p>Ambient temperature</p> <p>Electromagnetic vibrators - Sinusoidal & random spectra Frequency range: 5Hz to 2kHz Max thrust: 24kN (Vertical axis only)</p>	<p>Documented In-House Procedures, Customer Specifications, and International Standards</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</p> <p>BS EN 60068-2-5: 2011 DEF STAN 00-35 Part 3 Issue 4 Chapter 3-02 Test CL2 DEF STAN 00-35 Part 3 Issue 4 Chapter 3-06 Test CL6</p> <p>Documented In-House Procedures, Customer Specifications, and International Standards</p> <p>BS EN 60068-2-78: 2013 IEC 68-2-56: 1998</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</p>



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BATTERY VEHICLES	Fire resistance testing	ECE R100.02, Supplement 4 Paragraphs 6.5.1 and 6.5.2 and Annex 8E
	Vibration testing	ECE R100.02, Supplement 4 Paragraph -6.2 and Annex 8A
	Mechanical shock	ECE R100.02, Supplement 4 Paragraph 6.4.1.2 and Annex 8C
	Battery charging/discharging 20-1000V, 0-1400A	UNECE R100 Revision 2 Amendment 4. Annex 8 Appendix 1
	Thermal shock and cycling. -40 to +90 °C	ECE R100.02, Supplement 4 Paragraph 6.3.1 and Annex 9B
	Mechanical Integrity (crush) - 100kN	ECE R100.02, Supplement 4 Paragraph 6.4.2.1.2 and Annex 9D
	Short Circuit. <=8000A, <=1200V	ECE R100.02, Supplement 4 Paragraph 6.6.1 and Annex 9F
	Overcharge protection 20-1000V, 0-1400A	ECE R100.02, Supplement 4 Paragraph 6.7.1 and Annex 9G
	Over Discharge 20-1000V, 0-1400A	ECE R100.02, Supplement 4 Paragraph 6.8.1 and Annex 9H
	Over Temperature 20-1000V, 0-1400A, -40 to +90 °C	ECE R100.02, Supplement 4 Paragraph 6.9.1 and Annex 9I
Isolation Resistance 0 to 2 GΩ	ECE R100.02, Supplement 4 Paragraph 5.1.3 and Annex 5A	



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LIGHT DUTY VEHICLES	<p>EMISSIONS TESTING</p> <p>Chassis dynamometer based climatic testing</p> <p>Evaporative emissions</p>	<p>Type 1 Test - Annex XXI and Type 6 Test - Annex VIII, in EU 2017/1151 amended by 2018/1832 UN/ECE</p> <p>Type 4 Test - Annex VI, in EU 2017/1151 amended by 2018/1832 UN/ECE</p>
<p>VEHICLES IN EU / UNECE CATEGORIES</p> <p>M – Passenger Vehicles N – Goods Vehicles</p> <p>L – Motorcycles</p> <p>Approval of Tyres regarding rolling sound emissions of C Type tyres</p>	<p>Noise Testing</p> <p>Vehicle Exterior Noise Tests (Noise level, vehicle speed and position)</p> <p>Audible Warning (Horn)</p>	<p>UNECE Regulation 51-02 Annexes 3, 5, 6, 7 and 10</p> <p>UNECE Regulation 51-03 Annexes 3, 4, 5, 6, and 7</p> <p>UNECE Regulation 138-01 Annex 3</p> <p>EU Regulation 540/2014 Annexes II, IV, V, VI, VII and VIII</p> <p>UNECE Regulation 41-05 Annex 3</p> <p>UNECE Regulation 117-02 Annex 3</p> <p>UNECE Regulation 28-00 Part II</p>
END		