Schedule of Accreditation

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UTAC UK Ltd

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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
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 6 EASA CS25.562 Amend 27 EASA CS27.562 Amend 9 EASA CS29.562 Amend 10

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AEROSPACE COMPONENTS AND EQUIPMENT AUTOMOTIVE COMPONENTS AND ASSEMBLIES TRAIN COMPONENTS AND ASSEMBLIES PLASTIC COMPONENTS AND PRODUCTS STRUCTURES, COMPONENTS AND FITTINGS	**ENVIRONMENTAL TESTS** (Non- explosive items)	Documented In-House Procedures, Customer Specifications, and International Standards
	CLIMATIC	
	HIGH /LOW TEMPERATURE (Constant & cyclic) Max temp: 110 °C Min temp: -60 °C Max chamber working area: 11 m x 5 m x 4 m	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
	HIGH TEMPERATURE (Solar Radiation) Thermal effects only Max temp: 125 °C Max power per controller: 1120 Wm^{-2} Radiation area: 8 m x 3 m	BS EN 60068-2-5: 2011 BS EN 60068-2-5: 2018 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 DEF STAN 00-35 Part 3 Issue 5 Test CL3 (Thermal Effects)
	HIGH HUMIDITY (Steady state and Cyclic) Temp range: 20 °C to 60 °C Humidity range: 3 %RH to 98 %RH Max chamber working area: 11 m x 4.5 m x 4 m	BS EN 60068-2-78: 2013 IEC 68-2-56: 1998
	DYNAMIC	
	VIBRATION Ambient temperature Electromagnetic vibrators - Sinusoidal & random spectra Frequency range: 5Hz to 2kHz Max thrust: 24kN (Vertical axis only)	BS EN 60068-2-6: 1996 BS EN 60068-2-6: 2008 BS EN 60068-2-64: 1995 BS EN 60068-2-64: 2008 BS EN 60068-2-64: 2008 A1:2019

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BATTERY VEHICLES COMPONENTS - REESS	Fire resistance testing	ECE R100.02, Supplement 5 Paragraphs 6.5 and 6.5 and Annex 8E ECE R100.03, Supplement 3 Paragraphs 6.5 and Annex 9E ECE R100.04 Paragraphs 6.5 and Annex 9E
	Mechanical shock	ECE R100.02, Supplement 5 Paragraph 6.4.1.2, 6.4.1.3 and Annex 8C ECE R100.03 supplement 3 Paragraph 6.4.1.2, 6.4.1.3 and Annex 9C ECE R100.04 Paragraph 6.4.1.2, 6.4.1.3 and Annex 9C
	Battery charging/discharging 20-1000V, 0-1400A	ECE R100 Revision 2 Amendment 5. Annex 8 Appendix 1 ECE R100.03 supplement 3 Annex 9 appendix 1 & 2; ECE R100.04 Annex 9 appendix 1 & 2
	Thermal shock and cycling. -40 to +90 °C	ECE R100.02, Supplement 5 Paragraph 6.3 and Annex 8B ECE R100.03 supplement 3 paragraph 6.3 & Annex 9B; ECE R100.04 Paragraph 6.3 and Annex 9B
	Mechanical Integrity (crush) - 100kN	ECE R100.02, Supplement 5 Paragraph 6.4.2.1.2, 6.4.2.2, 6.4.2.3 and Annex 8D ECE R100.03 supplement 3 Paragraphs 6.4.2.1.2, 6.4.2.2 , 6.4.2.3 & Annex 9D; ECE R100.04 Paragraphs 6.4.2.1.2, 6.4.2.2 , 6.4.2.3and Annex 9D

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BATTERY VEHICLES COMPONENTS – REESS (cont)	Short Circuit. <=8000A, <=1200V	ECE R100.02, Supplement 5 Paragraph 6.6 and Annex 8F ECE R100.03, Supplement 3 Paragraph 6.6 and Annex 9F; ECE R100.04 Paragraph 6.6 and Annex 9F
	Overcharge protection 20-1000V, 0-1400A	ECE R100.02, Supplement 5 Paragraph 6.7 and Annex 8G ECE R100.03,Supplement 3 Paragraph 6.7 and Annex 9G ECE R100.04 Paragraph 6.7 and Annex 9G
	Over Discharge 20-1000V, 0-1400A	ECE R100.02, Supplement 5 Paragraph 6.8 and Annex 8H ECE R100.03 Supplement 3 Paragraph 6.8 and Annex 9H ECE R100.04 Paragraph 6.8 and Annex 9H
	Over Temperature 20-1000V, 0-1400A, -40 to +90 °C	ECE R100.02, Supplement 5 Paragraph 6.9 and Annex 8I ECE R100.03, Supplement 3 Paragraph 6.9 and Annex 9I ECE R100.04 Paragraph 6.9 and Annex 9I
	Isolation Resistance 0 to 2 GΩ	ECE R100.02, Supplement 5 Paragraph 5.1.3 and Annex 4A and 4B ECE R100.03, Supplement 3 Paragraph 5.1.3 and Annex 5A and 5B ECE R100.04 Paragraph 5.1.3 and Annex 5A and 5B;
	Overcurrent protection. 20-1000V, 0-1400A.	ECE R100.03 Supplement 3 Paragraph 6.10 and Annex 9J; ECE R100.04 Paragraph 6.10 and Annex 9J
	Chamber# 6 for REESS max size: 2.8 m x 3.5 m x 2.2 m	

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