ISSeP
Institut scientifique de service public
Métrologie environnementale
Recherche - Analyses
Essais - Expertises

Colfontaine office : Zoning
A. Schweitzer
Rue de la Platinerie
B-7340 Colfontaine
Tél : +32(0)65 61 08 11
Fax : +32(0)65 61 08 08

Head office and Liège office :
Rue du Chéra, 200
B-4000 Liège
Tél : +32(0)4 229 83 11
Fax : +32(0)4 252 46 65
Website : http://www.issep.be

Vlaanderen
is mobiliteit &
openbare werken

Colfontaine, the 29th April 2022

INSPECTION REPORT

Check of in-service conformity carried out by the granting type approval authority following the requirements of Article 9 and Annex II of Regulation EU 2017/1151 and 2018/1832.

File n° GE2/2022/0457

Report n° 0928/2022

	First name, Name	Function	Signature
Author	M. Motta	Attaché analysis cell	
Approved by	G. Ortegat	Responsible for analysis cell	
Authorized by	R. Detaille	Managing director	Rose Detaille (Signature) Signature numérique de Rose Detaille (Signature) Date : 2022.05.13 18:17:37 +02'00'

1. Applicant:

Vlaamse overheid, Departement Mobiliteit en Openbare Werken
Tocgcpast Mobilitcitsbclcid, Ccl Homologatic

Address : Koning Albert II-laan 20, (bus 2), 1000 Brussels, Belgium

Subject : Check of in-service conformity carried out by the granting type approval authority following the requirements of Article 9 and Annex II of Regulation EU 2017/1151 and 2018/1832.

2. Dates of the testing campaign:

From Thursday 24th March 2022 to Thursday 22nd April 2022.

3. Identification of families/vehicles tested:

Number of batch sample: 2
Sample size: 3

Manufacturer :	Toyota Motor Europe NV/SA	**Make** :	LEXUS NX300H
ISC family :	6-JT1-38-0	**VIN** :	xxxxxxxxxxxx51881 xxxxxxxxxxxx05420 xxxxxxxxxxxx03636
Manufacturer :	Toyota Motor Europe NV/SA	**Make** :	LEXUS UX250H
ISC family :	6-JT1-27-2	**VIN** :	xxxxxxxxxxxx66533 xxxxxxxxxxxx70606 xxxxxxxxxxxx55045

Remark: The vehicles identification numbers (VIN) are partially masked for confidentiality reasons.

4. Used procedures and tests performed:

Check of in-service conformity following the requirements of Article 9 and Annex II of Regulation EU 2017/1151 and 2018/1832.

- Conformity check ;
- WLTC Type I test ;
- PEMS validation ;
- RDE test.

5. Location of the testing campaign:

UTAC - AUTODROME LINAS-MONTLHERY, BP 20212 LINAS, 91311 MONTLHERY CEDEX - France (www.utac.com) ; The subcontracted laboratory is accredited by COFRAC according to ISO 17025/2017 standards related to the procedures mentioned above.

6. Results

The detailed results, provided by the subcontractor UTAC, are presented in annexes, report n° 22/02979 and n° 22/03323.

Overview of the results

- **Family 6-JT1-38-0**

- **WLTC Type 1**

		LEXUS NX300H xxxxxxxxxxxx51881	LEXUS NX300H xxxxxxxxxxxx05420	LEXUS NX300H xxxxxxxxxxxx03636	Limit values
Pollutants	Units	Final values	Final values	Final values	
CO	(mg/km)	90.6	74.3	105.6	**1000**
THC	(mg/km)	8.8	7.3	9.4	**100**
NMHC	(mg/km)	7.2	5.9	7.8	**68**
NOx	(mg/km)	3.9	3.3	3.6	**60**
THC + NOx	(mg/km)	-	-	-	-
Particulate Matter	(mg/km)	-	-	-	-
Particle Number	(#.10^{11}/km)	-	-	-	-

- : not applicable

- **RDE**

		LEXUS NX300H xxxxxxxxxxxx51881		LEXUS NX300H xxxxxxxxxxxx05420		LEXUS NX300H xxxxxxxxxxxx03636		Limit values
Pollutants	Units	Final values		Final values		Final values		
		Urban trip	Total trip	Urban trip	Total trip	Urban trip	Total trip	
NOx	(mg/km)	9.4	6.7	9.7	7.1	1.8	3.2	**85.8**
CO	(mg/km)	188.3	254.6	58.0	752.0	86.3	322.3	-
Particle Number	(#.10^{11}/km)	-	-	-	-	-	-	-

- : not applicable

- **Family 6-JT1-27-2**

- **WLTC Type 1**

		LEXUS UX250H xxxxxxxxxxxx66533	LEXUS UX250H xxxxxxxxxxxx70606	LEXUS UX250H xxxxxxxxxxxx55045	Limit values
Pollutants	Units	Final values	Final values	Final values	
CO	(mg/km)	127.2	128.2	113.4	**1000**
THC	(mg/km)	11.1	10.7	9.1	**100**
NMHC	(mg/km)	8.0	9.2	8.1	**68**
NOx	(mg/km)	1.8	1.6	1.9	**60**
THC + NOx	(mg/km)	-	-	-	**-**
Particulate Matter	(mg/km)	0.13	0.08	0.12	**4.5**
Particle Number	(#.10^{11}/km)	0.57	0.75	0.61	**6.0**

- : not applicable

- **RDE**

		LEXUS UX250H xxxxxxxxxxxx66533		LEXUS UX250H xxxxxxxxxxxx70606		LEXUS UX250H xxxxxxxxxxxx55045		Limit values
Pollutants	Units	Final values		Final values		Final values		
		Urban trip	Total trip	Urban trip	Total trip	Urban trip	Total trip	
NOx	(mg/km)	2.8	5.3	2.8	3.5	2.8	3.1	**85.8**
CO	(mg/km)	45.4	319.6	94.0	535.5	104.9	2266.1	**-**
Particle Number	(#.10^{11}/km)	0.56	1.12	0.94	1.13	0.62	1.39	**9.0**

- : not applicable

7. Conclusion:

The ISC procedures are under the responsibility of the Granting Type Approval Authority. Two families of three vehicles have been submitted to Type 1 (WLTC) and Type 1a (RDE) tests. All of the vehicles comply with the regulatory requirements (regulation EU 2018/1832) in compliance with reports n° 22/02979 and n°22/03323.

8. Remarks:

In this report, tests results are only available for the equipments/vehicles submitted to tests or materiel identified in the present test report.

The Institute (ISSeP) is responsible for all information provided in this report excepted data/information provided by the Authority.

9. Annexes

Annex 1: Report n° 22/02979 (12 pages) and « Appendices 1 of the selected vehicles » (24 pages)

Annex 2: Report n° 22/03323 (12 pages) and « Appendices 1 of the selected vehicles » (24 pages)

Annex 1: Report n° 22/02979 (report + appendices)

REPORT N° : 22/02979

APPLICANT : **ISSeP**
Zoning A.Schweitzer
Rue de la Platinerie 12
7340 Colfontaine, Belgium

SUBJECT : Check of in-service conformity carried out by the granting type approval authority following the requirements of Article 9 and Annex II of Regulation EU 2017/1151*2018/1832.

VEHICLES SUBMITTED TO TESTS

Manufacturer	:	**TOYOTA MOTOR EUROPE NV/SA**
Make	:	**LEXUS (LEXUS NX300H)**
Type approval number	:	**e6*2007/46*0111**
ISC family	:	**6-JT1-38-0**

MONTLHÉRY, 20/04/2022

Grégory PICARD
Conformity Team Manager

NB : UTAC shall not be liable for any industrial or commercial applications that occur as a result of these tests. This test report may only be reproduced in the form of a full photographic facsimile. Tests results are only available for the materiel submitted to tests or materiel identified in the present test report.

1. Quick overview and main conclusions

The ISC procedures are under the responsibility of the Flemish Type Approval Authority (Mobiliteit en Openbare Werken, Vlaams Huis voor de Verkeersveiligheid, Cel Homologatie). In accordance with the requirements of Annex II of Regulation EU 2018/1832, the vehicles of 1 ISC family of the manufacturer have been submitted to Type 1 (WLTC) and Type 1a (RDE) tests.
The results of the tests performed on the 3 vehicles comply with regulatory requirements.

2. Name and address of the manufacturer

Toyota Motor Europe NV/SA
Avenue du Bourget 60 - Bourgetlaan 60,
1140 Brüssel, Belgien

3. Name, address, telephone and fax numbers and e-mail address of the responsible testing laboratory

UTAC
Autodrome de Linas-Montlhéry
BP 20212
91311 Montlhéry Cedex France
+33 (0)1 69 80 17 00
www.utac.com

4. Model name of the vehicles included in the test plan

LEXUS NX300H (AZ1)

5. List of vehicle types covered within the manufacturer's information, i.e. for tailpipe emissions, the in-service family group

6-JT1-38-0

6. Numbers of the type approvals applicable to these vehicle types within the family, including, where applicable, the numbers of all extensions and field fixes/recalls (re-works)

RCE/WVTA : e6*2007/46*0111*07, Emissions : e6*715/2007*2018/1832AM*0310*00
RCE/WVTA : e6*2007/46*0111*08, Emissions : e6*715/2007*2018/1832AP*0310*01

7. Details of extensions, field fixes/recalls to those type approvals for the vehicles covered within the manufacturer's information (if requested by the approval authority)

/

8. Period of time over which the sales information was collected

01/01/2020 – 31/12/2020

9. Vehicle build period covered

xxxxxxxxxxxx51881 : 08/09/2020
xxxxxxxxxxxx05420 : 24/09/2020
xxxxxxxxxxxx03636 : 30/03/2020

10. ISC checking procedure :

Vehicle sourcing method

Compliance with vehicle eligibility criteria (article 9 and Annex II of Regulation EU 2018/1832)

Vehicle selection and rejection criteria (including the answers to the table in Appendix 1, including photos)

See Annex 2 « Appendices 1 of selected vehicles »

Test types and procedures used for the campain

Type 1 (WLTC) / RDE performed under the conditions defined in Annex IIIa of Regulation EU 2018/1832

The acceptance/rejection criteria for the family group

Compliance with the statistical rule of Table B.2.a of §5.10 of Annex II of Regulation EU 2018/1832

Geographical area(s) within which the manufacturer has collected information

Belgium, Germany and France (information collected by the Flemish Type Appoval Authority (MOW) and ProRent) concerning the vehicles selection and by UTAC concerning the control of the vehicle conformity

Sample size and sampling plan used

3 vehicles selected per ISC family in accordance with Annex II of Regulation EU 2018/1832

11. Results of the ISC procedure :

Identification of the vehicles included in the campain (whether tested or not). The identification shall include the Table in Appendix 1

See annex 2 "Appendices 1 of the selected vehicles"

Test data for tailpipe emissions :

- Test fuel specifications (e.g. test reference fuel or market fuel) :

Reference fuel (see §3 of Annex 1 "Details of test results")

- Test conditions (temperature, humidity, dynamometer inertia weight) :

Vehicle identification number	xxxxxxxxxxxx51881	xxxxxxxxxxxx05420	xxxxxxxxxxxx03636
Test temperature (°C)	22,5	22,5	22,4
Relative humidity (%)	47,7	47,5	47,7
IWR : Inertial Work Rating (%)	1,7	0,0	-0,3

- Dynamometer setting (e.g. road load, power setting):

Test mass (kg)	1909	1909	1885
Inertia mass (kg)	1936	1936	1912
f_0 (N)	171,4	171,4	140,5
f_1 (N/(km/h))	0,889	0,889	0,889
f_2 (N/(km/h)²)	0,04307	0,04307	0,04137

- Test results and calculation of pass/fail :

Vehicle identification number	xxxxxxxxxxxx51881	xxxxxxxxxxxx05420	xxxxxxxxxxxx03636
TYPE 1 (WLTC)	Pass	Pass	Pass
RDE	Pass	Pass	Pass

Details of test results: see annex 1 "Details of test results"

Test data for evaporative emissions :

Tests not performed on the selected vehicles

Annex 1 "Details of test results"

1. DESCRIPTION OF TESTED VEHICLE

Vehicle	N° 1	N° 2	N° 3
Make	**LEXUS**	**LEXUS**	**LEXUS**
Commercial designation	**LEXUS NX300H**	**LEXUS NX300H**	**LEXUS NX300H**
Interpolation family	**IP-0075-JT1-1**	**IP-0075-JT1-1**	**IP-0075-JT1-1**
Vehicle number	**xxxxxxxxxxxx51881**	**xxxxxxxxxxxx05420**	**xxxxxxxxxxxx03636**
Category	**M1**	**M1**	**M1**

2. POWERTRAIN ARCHITECTURE

Vehicle	N° 1	N° 2	N° 3
Powertrain architecture	**not off-vehicle charging hybrid**	**not off-vehicle charging hybrid**	**not off-vehicle charging hybrid**
Working principle of internal combustion engine	**positive ignition**	**positive ignition**	**positive ignition**
Gearbox	**continuous variable**	**continuous variable**	**continuous variable**

3. TEST FUEL FOR TYPE 1 TEST

Make	:	**TOTAL**
Type	:	**ULG E10 EURO6 CERT**
Density at 15°C (kg/dm3)	:	**0,746**
Sulphur content (mg/kg)	:	**4,4**
Batch number	:	**PCU050140G**

4. TEST CONDITIONS FOR TYPE 1 TEST

Vehicle	N° 1	N° 2	N° 3
Date of tests	**29/03/2022**	**01/04/2022**	**08/04/2022**
Place of the test	**Bench CE2, Montlhéry, France**	**Bench CE2, Montlhéry, France**	**Bench CE2, Montlhéry, France**
Odometer value at test start (km)	**24546**	**22147**	**22732**
Test mass (kg)	**1909**	**1909**	**1885**
Inertia mass (kg)	**1936**	**1936**	**1912**
f_0 (N)	**171,4**	**171,4**	**140,5**
f_1 (N/(km/h))	**0,889**	**0,889**	**0,889**
f_2 (N/(km/h)²)	**0,04307**	**0,04307**	**0,04137**
Test temperature (°C)	**22,5**	**22,5**	**22,4**
Relative humidity (%)	**47,7**	**47,5**	**47,7**
IWR : Inertial Work Rating (%)	**1,7**	**0,0**	**-0,3**
RMSSE: Root Mean Squared Speed Error (km/h)	**0,48**	**0,52**	**0,52**

5. EQUIPMENT USED FOR TYPE 1 TEST

Equipment	Brand	Reference
Diluted gaz analysis bay	**Horiba**	**BAI0039**
Particle counter	**AVL**	**EMI0101**
Weather station	**Vaisala**	**SME0005**
Ventilation	**FEV**	**EMI0100**
CVS	**Horiba**	**EMI0098**
Roller	**Maha**	**BRX0019 & BRX0020**
Dynamometer	**FEV**	**CPL0012 & CPL0013**

6. POLLUTANT EMISSIONS – TYPE 1

Vehicle	Pollutants	CO (mg/km)	THC (mg/km)	NMHC (mg/km)	NO_x (mg/km)	THC+NOx (mg/km)	Particulate Matter (mg/km)	Particle Number (#.10^{11}/km)
N° 1	Measured values	90,58	8,81	7,18	3,89	-	-	-
	Regeneration factors (Ki)	-	-	-	-	-	-	-
	Final values	**90,6**	**8,8**	**7,2**	**3,9**	-	-	-
	Limit values	**1000**	**100**	**68**	**60**	-	-	-
	Final result	**Compliant**						
N°2	Measured values	74,30	7,30	5,88	3,28	-	-	-
	Regeneration factors (Ki)	-	-	-	-	-	-	-
	Final values	**74,3**	**7,3**	**5,9**	**3,3**	-	-	-
	Limit values	**1000**	**100**	**68**	**60**	-	-	-
	Final result	**Compliant**						
N°3	Measured values	105,63	9,44	7,75	3,56	-	-	-
	Regeneration factors (Ki)	-	-	-	-	-	-	-
	Final values	**105,6**	**9,4**	**7,8**	**3,6**	-	-	-
	Limit values	**1000**	**100**	**68**	**60**	-	-	-
	Final result	**Compliant**						

n.a. : not applicable

7. MESURED CO2 EMISSION (STEP 1) - TYPE 1

Vehicle	Phase 1 (Low) (g/km)	Phase 2 (Medium) (g/km)	Phase 3 (High) (g/km)	Phase 4 (Extra High) (g/km)	Global (g/km)
N°1	**154,88**	**147,99**	**139,30**	**181,51**	**158,13**
N°2	**161,21**	**143,37**	**138,44**	**183,77**	**158,57**
N°3	**153,21**	**171,04**	**135,02**	**176,14**	**159,37**

8. RDE FAMILY CRITERIA

Family reference : **6-JT1-38-0**

9. DECLARED CO2 VALUES FROM COC

CO_2 Emission (g/km)	Vehicle N°1	Vehicle N°2	Vehicle N°3
Low	**176**	**176**	**168**
Mid	**139**	**139**	**131**
High	**147**	**147**	**139**
Extra-High	**202**	**202**	**191**
Combined	**169**	**169**	**160**

10. TEST CONDITIONS FOR RDE TEST

	Vehicle N°1	Vehicle N°2	Vehicle N°3
Date of tests	**31/03/2022**	**29/03/2022**	**04/04/2022**
Place of tests	**Montlhéry, France**	**Montlhéry, France**	**Montlhéry, France**
Hot start	**no**	**no**	**no**
Odometer value at test start (km)	**24593**	**21994**	**22580**
Odometer value at test end (km)	**24695**	**22083**	**22668**
Artificial payload (% deviation from the payload)	**0**	**0**	**0**
PEMS validation procedure (carried out on tested vehicles)	**carried out**	**carried out**	**carried out**

11. POLLUTANT EMISSIONS - RDE

Vehicle		N° 1			N° 2			N° 3		
Pollutants emissions		NOx [mg/km]	CO [mg/km]	PN [#.10^{11}/km]	NOx [mg/km]	CO [mg/km]	PN [#.10^{11}/km]	NOx [mg/km]	CO [mg/km]	PN [#.10^{11}/km]
Urban trip	Measured values $m_{RDE,u}$	9,4	188,3	-	9,7	58,0	-	1,8	86,3	-
	Evaluation factor RF_u	1,0000			1,0000			1,0000		
	Calculated values $M_{RDE,u}$	9,4	188,3	-	9,7	58,0	-	1,8	86,3	-
	Regeneration factors (Ki)	-	-	-	-	-	-	-	-	-
	Final values	**9,4**	**188,3**	**-**	**9,7**	**58,0**	**-**	**1,8**	**86,3**	**-**
	Conformity factors	**0,16**	**s.o. / *n.a.***	**-**	**0,16**	**s.o. / *n.a.***	**-**	**0,03**	**s.o. / *n.a.***	**-**
Total trip	Measured values $m_{RDE,u}$	6,7	254,6	-	7,1	752,0	-	3,2	322,3	-
	Evaluation factor RF_u	1,0000			1,0000			1,0000		
	Calculated values $M_{RDE,u}$	6,7	254,6	-	7,1	752,0	-	3,2	322,3	-
	Regeneration factors (Ki)	-	-	-	-	-	-	-	-	-
	Final values	**6,7**	**254,6**	**-**	**7,1**	**752,0**	**-**	**3,2**	**322,3**	**-**
	Conformity factors	**0,11**	**s.o. / *n.a.***	**-**	**0,12**	**s.o. / *n.a.***	**-**	**0,05**	**s.o. / *n.a.***	**-**
Limit values	Applicable Euro 6 limits	60	1000	-	60	1000	-	60	1000	-
	Conformity factors	1 + 0,43	s.o. / *n.a.*	-	1 + 0,43	s.o. / *n.a.*	-	1 + 0,43	s.o. / *n.a.*	-
	Not to exceed limits	**85,8**	**s.o. / *n.a.***	**-**	**85,8**	**s.o. / *n.a.***	**-**	**85,8**	**s.o. / *n.a.***	**-**
Final result		**Compliant**			**Compliant**			**Compliant**		

n.a. : not applicable

12. MESURED CO2 EMISSION – RDE

Vehicle	Urban (g/km)	Rural (g/km)	Motorway (g/km)	Trip (g/km)
N°1	**169,47**	**159,96**	**200,85**	**173,79**
N°2	**169,16**	**162,18**	**203,30**	**177,50**
N°3	**149,83**	**169,61**	**192,23**	**168,99**

13. RDE TESTS CHARACTERISTICS

Parameter		N°1	N°2	N°3	Legislation bundaries
Trip Duration (min:s)		**100:46**	**95:09**	**91:39**	**90-120min**
Trip Distance (km)		**82,97**	**89,18**	**82,55**	**> 46 km**
Stop Duration (% of urban)		**10,2%**	**10,1%**	**12,9%**	**6-30%**
Distance share (%) (and typical km-distance)	Urban	**36,7% (30 km)**	**34,5% (31 km)**	**35,5% (29 km)**	**29-44% & > 16 km**
	Rural	**38,0% (32 km)**	**34,1% (30 km)**	**36,2% (30 km)**	**23-43% & > 16 km**
	Motorway	**25,3% (21 km)**	**31,4% (28 km)**	**28,3% (23 km)**	**23-43% & > 16 km**
Average Speed (km/h)	Urban	**28,47**	**32,38**	**30,93**	**15-40 km/h**
	Rural	**75,28**	**78,46**	**79,39**	**60-90 km/h**
	Motorway	**109,88**	**113,24**	**114,44**	**100-145 km/h**
Motorway (>100km/h) (min:s)		**9:59**	**12:02**	**10:09**	**> 5 min**
Max altitude (m)		**167**	**168**	**173**	**< 700m**
Altitude difference (end-start) (m)		**12**	**13**	**2**	**< 100 m**
Minimum Temperature (°C)		**4,5**	**12,2**	**7,3**	**3°C (-2°C ; 3°C)**
Maximum Temperature (°C)		**7,7**	**15,2**	**9,9**	**30°C (30°C ; 35°C)**
V*Apos_95% (W/kg) (m^2/s^3)	Urban	**11,296**	**12,485**	**12,495**	**<=18.622 (m^2/s^3)**
	Rural	**18,317**	**18,862**	**16,671**	**<=24.7 (m^2/s^3)**
	Motorway	**20,014**	**22,316**	**22,506**	**<=28.016 (m^2/s^3)**
RPA (m/s^2)	Urban	**0,219**	**0,236**	**0,242**	**>= 0.126 (m/s^2)**
	Rural	**0,123**	**0,145**	**0,125**	**>= 0.052 (m/s^2)**
	Motorway	**0,130**	**0,136**	**0,128**	**>= 0.025 (m/s^2)**

14. EQUIPMENT USED FOR RDE TEST

Vehicle	PN (AVL)	Exhaust flowmeter (AVL)	Gaz analyser (AVL)
N°1	**EMI0125**	**DEG0073**	**ANA0144**
N°2	**EMI0125**	**DEG0073**	**ANA0144**
N°3	**EMI0125**	**DEG0073**	**ANA0144**

15. CORRELATION BETWEEN PEMS AND CVS

Vehicle 1						
	PEMS result	CVS result	Difference	Difference	Tolerance	Assessment
CO2 (g/km)	**162,1**	**153,9**	**8,2**	**5,3 %**	**+/- 10 g/km** *or* 10 %	**Passed**
CO (mg/km)	**70,9**	**82,1**	**-11,2**	**-13,6 %**	**+/- 150 mg/km** *or* 15 %	**Passed**
NOx (mg/km)	**5,4**	**3,8**	**1,6**	**42,1 %**	**+/- 15 mg/km** *or* 15 %	**Passed**
PN (#/km)	-	-	-	-	**+/- 1,0E11#/km** *or* 50%	**Passed**
Distance (m)	**22560**	**23246**	**-686**	-	**+/- 250m**	**Failed**

Vehicle 2						
	PEMS result	CVS result	Difference	Difference	Tolerance	Assessment
CO2 (g/km)	**186,1**	**174,0**	**12,1**	**6,9 %**	**+/- 10 g/km** *or* 10 %	**Passed**
CO (mg/km)	**55,1**	**78,9**	**-23,8**	**-30,2 %**	**+/- 150 mg/km** *or* 15 %	**Passed**
NOx (mg/km)	**4,1**	**2,5**	**1,6**	**64,2 %**	**+/- 15 mg/km** *or* 15 %	**Passed**
PN (#/km)	-	-	-	-	**+/- 1,0E11#/km** *or* 50%	**Passed**
Distance (m)	**22576**	**23213**	**-637**	-	**+/- 250m**	**Failed**

Vehicle 3						
	PEMS result	CVS result	Difference	Difference	Tolerance	Assessment
CO2 (g/km)	**181,5**	**172,9**	**8,6**	**5,0 %**	**+/- 10 g/km** *or* 10 %	**Passed**
CO (mg/km)	**87,1**	**101,7**	**-14,6**	**-14,3 %**	**+/- 150 mg/km** *or* 15 %	**Passed**
NOx (mg/km)	**3,9**	**2,7**	**1,2**	**42,1 %**	**+/- 15 mg/km** *or* 15 %	**Passed**
PN (#/km)	-	-	-	-	**+/- 1,0E11#/km** *or* 50%	**Passed**
Distance (m)	**22808**	**23202**	**-394**	-	**+/- 250m**	**Failed**

Annex 2 "Appendices 1 of the selected vehicles"

Appendice 1

Criteria for vehicle selection and failed vehicles decision

Selection of Vehicles for In Service Conformity Emissions Testing

	x=exclusion criteria	X = checked & reported	Confidential	
Date :			x	24/03/2022
Name of investigator :			x	UTAC
Location of test :			x	UTAC / Montlhéry
Country of registration (in EU only):		X		GERMANY
Registration plate number :		x	x	-
Mileage : The vehicle must have between 15 000 km (or 30 000 km for testing evaporative emissions) and 100 000 km	x			24 480 km
Date of first registration : The vehicle must be between 6 months (or 12 months for testing evaporative emissions) and 5 years old	x			05/05/2021
VIN :		x		xxxxxxxxxxxx51881
Emission class and character :		x		715/2007*2018/1832APEURO6
Country of registration : The vehicle must be registered in the EU	x	x		GERMANY
Model :		x		AZ1
Engine code :		x		2AR-FXE
Engine volume [l] :		x		2.494
Engine power (kW) :		x		114
Gearbox type (auto/manual) :		x		CVT
Drive axle (FWD/AWD/RWD) :		x		FWD
Tire size (front and rear if different) :		x		225/60 R18 100H
Is the vehicle involved in a recall or service campain ? If yes : Which one ? Has the campain repairs already been done ? *The repairs must have been done*	x	x		No

	Vehicle Examination and Maintenance	X = exclusion criteria / F = faulty vehicle	X = checked and reported	
1	**Fuel tank level (full / empty)** *Is the fuel reserve light ON ? If yes, refuel before test*		x	Level done with reference fuel after enptying procedure (Fuel form available in the folder)
2	**Are there any warning lights on the instrument panel activated indicating a vehicle or exhaust after-treatment system malfunctioning that cannot be resolve by normal maintenance ? (Malfunction Indication Light, Engine Service Light, etc ?)** *If yes, the vehicle cannot be selected*	x	x	No
3	**Is the SCR light on after engine-on ?** *If yes, the AdBlue should be filled in, or the repair executed before the vehicle is used for testing*	x		No
4	**Visual inspection exhaust system** Check leaks between exhaust manifold and end of tailpipe. Check and document (with photos) *If there is damage of leaks, the vehicle is declared faulty*	x		No leak detected
5	**Exhaust gas relevant components** Check and document (with photos) all emissions relevant components for damage *If there is damage, the vehicle is declared faulty*	x		Ok (see photos)
6	**Evap system :** Pressurize fuel-system (from canister side), testing for leaks in a constant ambient temperature environment, FID sniff test around and in the vehicle. *If the FID sniff test is not passed, the vehicle is declared faulty*	x		-
7	**Fuel sample** Collect fuel sample from the fuel tank		x	Fuel form in the folder
8	**Air filter and oil filter** Check for contamination and damage and change if damaged or heavily contaminated of less than 800 km before the next recommended change		x	Ok
9	**Window washer fluid (only for evaporative testing)** Remove window washer fluid and fill tank with hot water		x	-
10	**Wheels (front and rear)** Check whether the wheels are freely moveable of blocked by the brake *If not, the vehicle cannot be selected*	x		No hard point

11	**Tyres (only for evaporative testing)** Remove spare tyre, change to stabilised tyres if the tyres were changes less than 15 000 km ago Use summer and all season tyres only		x	-
12	**Drive belts & cooler cover** In case of damage, the vehicle is declared faulty Document with photos	x		Ok
13	**Check fluid levels** Check the max. and min. levels (engine oil, cooling liquid) / top up if below minimum		x	Levels OK
14	**Filler flap (only for evaporative testing)** Check overfill line within filler flap is completely free of residues or flush the hose with hot water.		x	-
15	**Vacuum hoses and electrical wiring** Check all for integrity. In case of damage, the vehicle is declared faulty. Document with photos	x		Ok
16	**Injection valves / cabling** Check all cables and fuel lines. *In case of damage, the vehicle is declared faulty. Document with photos*	x		Ok
17	**Ignition cable (gasoline)** Check spark plugs, cables, etc. *In case of samage, replace them*		x	Ok
18	**EGR & Catalyst, Particle Filter** Check all cables, wires and sensors *In case of tampering, the vehicle cannot be selected.* *In case of damage, the vehicle is declared faulty* *Document with photos*	x		Ok
19	**Safety condition** Check tyres, vehicle's body, electrical and braking system status are in safe conditions for the test and respect road traffic rules *If not, the vehicle cannot be selected*	x		Ok
20	**Semi-trailer** Are there electric cables for semi-traile connection, where required ?		x	-
21	**Aerodynamic modifications** Verify no aftermarket aerodynamics modification that cannot be removed before testing was made (roof boxes, load racking, spoilers, etc.) and no standard aerodynamics components are missing (front deflectors, diffusers, splitters, etc.) *If yes, the vehicle cannot be selected. Document with photos.*	x		No modification

22	**Check if less than 800 km away from next scheduled service, if yes, then perform the service**		x	Ok
23	**All checks requiring OBD connections to be performed before and/or after the end of testing**		x	Done
24	**Powertrain Control Module calibration part number and checksum**		x	Cal ID : 848701000998578 N° Cal : $48 $ed $6f $65
25	**OBD diagnosis (before or after the emissions test)**		x	No default
26	**OBD Service Mode 09 Query (before or after the emissions test)** Read Service Mode 09. Record the information		x	No default
27	**OBD mode 7 (before or after the emissions test)** Read Service Mode 07. Record the information			No default

▼M3

Appendix 1

Criteria for vehicle selection and failed vehicles decision

Selection of Vehicles for In Service Conformity Emissions Testing

			Confidential
Date: 14.03.2022			x
Name of investigator:			x
Location of test: Linas			x
Country of registration (in EU only): Germany		x	

Vehicle Characteristics	**x = Exclusion Criteria**	**X = Checked and reported**	
Registration plate number:		x	x
Mileage: 24.500 km *The vehicle must have between 15 000 km (or 30 000 km for testing evaporative emissions) and 100 000 km*	x		
Date of first registration: 05.05.2021 *The vehicle must be between 6 months (or 12 months for testing evaporative emissions) and 5 years old*	x		
VIN: xxxxxxxxxxxx51881		x	
Emission class and character: Euro 6 / 36AP		x	
Country of registration: Germany *The vehicle must be registered in the EU*	x	x	
Model: Lexus NX 3		x	
Engine code: 2AR		x	
Engine volume (l): 2.494		x	
Engine power (kW): 114		x	
Gearbox type (auto/manual): A/T		x	
Drive axle (FWD/AWD/RWD): FWD		x	
Tyre size (front and rear if different): 225/60 R18		x	
Is the vehicle involved in a recall or service campaign? **If yes: Which one? Has the campaign repairs already been done?** *The repairs must have been done* No	x	x	

▼M3

Vehicle Owner Interview

(the owner will only be asked the main questions and shall have no knowledge of the implications of the replies)

Name of the owner (only available to the accredited inspection body or laboratory/technical service) xxxxxx			x
Contact (address / telephone) (only available to the accredited inspection body or laboratory/technical service) xxxxxx			x

How many owners did the vehicle have? 1		x	
Did the odometer not work? *If yes, the vehicle cannot be selected.* No	x		
Was the vehicle used for one of the following?			
As car used in show-rooms?		x	
As a taxi?		x	
As delivery vehicle?		x	
For racing / motor sports?	x		
As a rental car?		x	
Has the vehicle carried heavy loads over the specifications of the manufacturer? *If yes, the vehicle cannot be selected.* No	x		
Have there been major engine or vehicle repairs? No		x	
Have there been unauthorised major engine or vehicle repairs? *If yes, the vehicle cannot be selected.* No	x		
Has there been a power increase/tuning? *If yes, the vehicle cannot be selected.* No	x		
Was any part of the emissions after-treatment and/or the fuel system replaced? Were original parts used? *If original parts were not used, the vehicle cannot be selected.* No	x	x	
Was any part of the emissions after-treatment system permanently removed? *If yes, the vehicle cannot be selected* No	x		
Were there any unauthorised devices installed (Urea killer, emulator, etc)? *If yes, the vehicle cannot be selected* No	x		

▼M3

Was the vehicle involved in a serious accident? Provide a list of damage and repairs done afterwards No		x	
Has the car been used with a wrong fuel type (i.e. gasoline instead of diesel) in the past? Has the car been used with non-commercially available EU-quality fuel (black market, or blended fuel?) *If yes, the vehicle cannot be selected.* No	x		
Did you use air-fresher, cockpit-spray, brake cleaner or other high hydrocarbon emission source around the vehicle during the last month? *If yes, the vehicle cannot be selected for evaporative testing.* No	x		
Was there a gasoline spill in the inside or outside of the vehicle during the last 3 months? *If yes, the vehicle cannot be selected for evaporative testing.* No	x		
Did anyone smoke in the car during the last 12 months? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Did you apply corrosion protection, stickers, under seal protection, on any other potential sources of volatile compounds to the car? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Was the car repainted? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Where do you use your vehicle more often?			
40 % motorway		x	
30 % rural		x	
30 % urban		x	
Did you drive the vehicle in a non EU Member State for more than 10 % of driving time? *If yes, the vehicle cannot be selected* No	x	—	
In which country was the vehicle refuelled during the last two times? *If the vehicle was refuelled the last two times outside a state applying the EU Fuel Standards, the vehicle cannot be selected.* Germany	x		
Has a fuel additive, not approved by the manufacturer been used? *If yes then the vehicle cannot be selected.* No	x		
Has the vehicle been maintained and used in accordance with the manufacturer's instructions? *If not, the vehicle cannot be selected.* Yes	x		

▼M3

Full service and repair history including any re-works *If the full documentation cannot be provided, the vehicle cannot be selected.* Dokument attached	**x**		

Vehicle Examination and Maintenance

X = Exclusion Criteria/ F = Faulty Vehicle

X = checked and reported

Appendice 1

Criteria for vehicle selection and failed vehicles decision

Selection of Vehicles for In Service Conformity Emissions Testing

	x=exclusion criteria	X = checked & reported	Confidential	
Date :			x	25/03/2022
Name of investigator :			x	UTAC
Location of test :			x	UTAC / Montlhéry
Country of registration (in EU only):		X		GERMANY
Registration plate number :		x	x	-
Mileage : The vehicle must have between 15 000 km (or 30 000 km for testing evaporative emissions) and 100 000 km	x			21 971 km
Date of first registration : The vehicle must be between 6 months (or 12 months for testing evaporative emissions) and 5 years old	x			05/05/2021
VIN :		x		xxxxxxxxxxxx05420
Emission class and character :		x		715/2007*2018/1832APEURO6
Country of registration : The vehicle must be registered in the EU	x	x		GERMANY
Model :		x		AZ1
Engine code :		x		2AR-FXE
Engine volume [l] :		x		2.494
Engine power (kW) :		x		114
Gearbox type (auto/manual) :		x		CVT
Drive axle (FWD/AWD/RWD) :		x		FWD
Tire size (front and rear if different) :		x		225/60 R18 104H
Is the vehicle involved in a recall or service campain ? If yes : Which one ? Has the campain repairs already been done ? *The repairs must have been done*	x	x		No

	Vehicle Examination and Maintenance	X = exclusion criteria / F = faulty vehicle	X = checked and reported	
1	**Fuel tank level (full / empty)** *Is the fuel reserve light ON ? If yes, refuel before test*		x	Level done with reference fuel after enptying procedure (Fuel form available in the folder)
2	**Are there any warning lights on the instrument panel activated indicating a vehicle or exhaust after-treatment system malfunctioning that cannot be resolve by normal maintenance ? (Malfunction Indication Light, Engine Service Light, etc ?)** *If yes, the vehicle cannot be selected*	x	x	No
3	**Is the SCR light on after engine-on ?** *If yes, the AdBlue should be filled in, or the repair executed before the vehicle is used for testing*	x		No
4	**Visual inspection exhaust system** Check leaks between exhaust manifold and end of tailpipe. Check and document (with photos) *If there is damage of leaks, the vehicle is declared faulty*	x		No leak detected
5	**Exhaust gas relevant components** Check and document (with photos) all emissions relevant components for damage *If there is damage, the vehicle is declared faulty*	x		Ok (see photos)
6	**Evap system :** Pressurize fuel-system (from canister side), testing for leaks in a constant ambient temperature environment, FID sniff test around and in the vehicle. *If the FID sniff test is not passed, the vehicle is declared faulty*	x		-
7	**Fuel sample** Collect fuel sample from the fuel tank		x	Fuel form in the folder
8	**Air filter and oil filter** Check for contamination and damage and change if damaged or heavily contaminated of less than 800 km before the next recommended change		x	Ok
9	**Window washer fluid (only for evaporative testing)** Remove window washer fluid and fill tank with hot water		x	-
10	**Wheels (front and rear)** Check whether the wheels are freely moveable of blocked by the brake *If not, the vehicle cannot be selected*	x		No hard point

11	**Tyres (only for evaporative testing)** Remove spare tyre, change to stabilised tyres if the tyres were changes less than 15 000 km ago Use summer and all season tyres only		x	-
12	**Drive belts & cooler cover** In case of damage, the vehicle is declared faulty Document with photos	x		Ok
13	**Check fluid levels** Check the max. and min. levels (engine oil, cooling liquid) / top up if below minimum		x	Levels OK
14	**Filler flap (only for evaporative testing)** Check overfill line within filler flap is completely free of residues or flush the hose with hot water.		x	-
15	**Vacuum hoses and electrical wiring** Check all for integrity. In case of damage, the vehicle is declared faulty. Document with photos	x		Ok
16	**Injection valves / cabling** Check all cables and fuel lines. *In case of damage, the vehicle is declared faulty. Document with photos*	x		Ok
17	**Ignition cable (gasoline)** Check spark plugs, cables, etc. *In case of samage, replace them*		x	Ok
18	**EGR & Catalyst, Particle Filter** Check all cables, wires and sensors *In case of tampering, the vehicle cannot be selected.* *In case of damage, the vehicle is declared faulty* *Document with photos*	x		Ok
19	**Safety condition** Check tyres, vehicle's body, electrical and braking system status are in safe conditions for the test and respect road traffic rules *If not, the vehicle cannot be selected*	x		Ok
20	**Semi-trailer** Are there electric cables for semi-traile connection, where required ?		x	-
21	**Aerodynamic modifications** Verify no aftermarket aerodynamics modification that cannot be removed before testing was made (roof boxes, load racking, spoilers, etc.) and no standard aerodynamics components are missing (front deflectors, diffusers, splitters, etc.) *If yes, the vehicle cannot be selected. Document with photos.*	x		No modification

22	**Check if less than 800 km away from next scheduled service, if yes, then perform the service**		x	Ok
23	**All checks requiring OBD connections to be performed before and/or after the end of testing**		x	Done
24	**Powertrain Control Module calibration part number and checksum**		x	Cal ID : 3788378520F9000 N° Cal : $1e $e2 $10 $9d
25	**OBD diagnosis (before or after the emissions test)**		x	No default
26	**OBD Service Mode 09 Query (before or after the emissions test)** Read Service Mode 09. Record the information		x	No default
27	**OBD mode 7 (before or after the emissions test)** Read Service Mode 07. Record the information			No default

▼M3

Appendix 1

Criteria for vehicle selection and failed vehicles decision

Selection of Vehicles for In Service Conformity Emissions Testing

			Confidential
Date: 14.03.2022			x
Name of investigator:			x
Location of test: Linas			x
Country of registration (in EU only): Germany		x	

Vehicle Characteristics	**x = Exclusion Criteria**	**X = Checked and reported**	
Registration plate number:		x	x
Mileage: 22.000 km *The vehicle must have between 15 000 km (or 30 000 km for testing evaporative emissions) and 100 000 km*	x		
Date of first registration: 05.05.2021 *The vehicle must be between 6 months (or 12 months for testing evaporative emissions) and 5 years old*	x		
VIN: xxxxxxxxxxxx05420		x	
Emission class and character: Euro 6 / 36AP		x	
Country of registration: Germany *The vehicle must be registered in the EU*	x	x	
Model: Lexus NX 3		x	
Engine code: 2AR		x	
Engine volume (l): 2.494		x	
Engine power (kW): 114		x	
Gearbox type (auto/manual): A/T		x	
Drive axle (FWD/AWD/RWD): FWD		x	
Tyre size (front and rear if different): 225/60 R18		x	
Is the vehicle involved in a recall or service campaign? **If yes: Which one? Has the campaign repairs already been done?** *The repairs must have been done* No	x	x	

▼M3

Vehicle Owner Interview

(the owner will only be asked the main questions and shall have no knowledge of the implications of the replies)

Name of the owner (only available to the accredited inspection body or laboratory/technical service) xxxxxx			x
Contact (address / telephone) (only available to the accredited inspection body or laboratory/technical service) xxxxxx			x

How many owners did the vehicle have? 1		x	
Did the odometer not work? *If yes, the vehicle cannot be selected.* No	x		
Was the vehicle used for one of the following?			
As car used in show-rooms?		x	
As a taxi?		x	
As delivery vehicle?		x	
For racing / motor sports?	x		
As a rental car?		x	
Has the vehicle carried heavy loads over the specifications of the manufacturer? *If yes, the vehicle cannot be selected.* No	x		
Have there been major engine or vehicle repairs? No		x	
Have there been unauthorised major engine or vehicle repairs? *If yes, the vehicle cannot be selected.* No	x		
Has there been a power increase/tuning? *If yes, the vehicle cannot be selected.* No	x		
Was any part of the emissions after-treatment and/or the fuel system replaced? Were original parts used? *If original parts were not used, the vehicle cannot be selected.* No	x	x	
Was any part of the emissions after-treatment system permanently removed? *If yes, the vehicle cannot be selected* No	x		
Were there any unauthorised devices installed (Urea killer, emulator, etc)? *If yes, the vehicle cannot be selected* No	x		

▼M3

Was the vehicle involved in a serious accident? Provide a list of damage and repairs done afterwards No		x	
Has the car been used with a wrong fuel type (i.e. gasoline instead of diesel) in the past? Has the car been used with non-commercially available EU-quality fuel (black market, or blended fuel?) *If yes, the vehicle cannot be selected.* No	x		
Did you use air-fresher, cockpit-spray, brake cleaner or other high hydrocarbon emission source around the vehicle during the last month? *If yes, the vehicle cannot be selected for evaporative testing.* No	x		
Was there a gasoline spill in the inside or outside of the vehicle during the last 3 months? *If yes, the vehicle cannot be selected for evaporative testing.* No	x		
Did anyone smoke in the car during the last 12 months? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Did you apply corrosion protection, stickers, under seal protection, on any other potential sources of volatile compounds to the car? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Was the car repainted? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Where do you use your vehicle more often?			
40 % motorway		x	
30 % rural		x	
30 % urban		x	
Did you drive the vehicle in a non EU Member State for more than 10 % of driving time? *If yes, the vehicle cannot be selected* No	x	—	
In which country was the vehicle refuelled during the last two times? *If the vehicle was refuelled the last two times outside a state applying the EU Fuel Standards, the vehicle cannot be selected.* Germany	x		
Has a fuel additive, not approved by the manufacturer been used? *If yes then the vehicle cannot be selected.* No	x		
Has the vehicle been maintained and used in accordance with the manufacturer's instructions? *If not, the vehicle cannot be selected.* Yes	x		

▼M3

Full service and repair history including any re-works *If the full documentation cannot be provided, the vehicle cannot be selected.* Dokument attached	**x**		

Vehicle Examination and Maintenance

X = Exclusion Criteria/ F = Faulty Vehicle

X = checked and reported

Appendice 1

Criteria for vehicle selection and failed vehicles decision

Selection of Vehicles for In Service Conformity Emissions Testing

	x=exclusion criteria	X = checked & reported	Confidential	
Date :			x	31/03/2022
Name of investigator :			x	UTAC
Location of test :			x	UTAC / Montlhéry
Country of registration (in EU only):		X		GERMANY
Registration plate number :		x	x	-
Mileage : The vehicle must have between 15 000 km (or 30 000 km for testing evaporative emissions) and 100 000 km	x			22 469 km
Date of first registration : The vehicle must be between 6 months (or 12 months for testing evaporative emissions) and 5 years old	x			11/08/2020
VIN :		x		xxxxxxxxxxxx03636
Emission class and character :		x		715/2007*2018/1832AMEURO6
Country of registration : The vehicle must be registered in the EU	x	x		GERMANY
Model :		x		AZ1
Engine code :		x		2AR-FXE
Engine volume [l] :		x		2.494
Engine power (kW) :		x		114
Gearbox type (auto/manual) :		x		CVT
Drive axle (FWD/AWD/RWD) :		x		FWD
Tire size (front and rear if different) :		x		225/60 R18 104H
Is the vehicle involved in a recall or service campain ? If yes : Which one ? Has the campain repairs already been done ? *The repairs must have been done*	x	x		No

	Vehicle Examination and Maintenance	X = exclusion criteria / F = faulty vehicle	X = checked and reported	
1	**Fuel tank level (full / empty)** *Is the fuel reserve light ON ? If yes, refuel before test*		x	Level done with reference fuel after enptying procedure (Fuel form available in the folder)
2	**Are there any warning lights on the instrument panel activated indicating a vehicle or exhaust after-treatment system malfunctioning that cannot be resolve by normal maintenance ? (Malfunction Indication Light, Engine Service Light, etc ?)** *If yes, the vehicle cannot be selected*	x	x	No
3	**Is the SCR light on after engine-on ?** *If yes, the AdBlue should be filled in, or the repair executed before the vehicle is used for testing*	x		No
4	**Visual inspection exhaust system** Check leaks between exhaust manifold and end of tailpipe. Check and document (with photos) *If there is damage of leaks, the vehicle is declared faulty*	x		No leak detected
5	**Exhaust gas relevant components** Check and document (with photos) all emissions relevant components for damage *If there is damage, the vehicle is declared faulty*	x		Ok (see photos)
6	**Evap system :** Pressurize fuel-system (from canister side), testing for leaks in a constant ambient temperature environment, FID sniff test around and in the vehicle. *If the FID sniff test is not passed, the vehicle is declared faulty*	x		-
7	**Fuel sample** Collect fuel sample from the fuel tank		x	Fuel form in the folder
8	**Air filter and oil filter** Check for contamination and damage and change if damaged or heavily contaminated of less than 800 km before the next recommended change		x	Ok
9	**Window washer fluid (only for evaporative testing)** Remove window washer fluid and fill tank with hot water		x	-
10	**Wheels (front and rear)** Check whether the wheels are freely moveable of blocked by the brake *If not, the vehicle cannot be selected*	x		No hard point

11	**Tyres (only for evaporative testing)** Remove spare tyre, change to stabilised tyres if the tyres were changes less than 15 000 km ago Use summer and all season tyres only		x	-
12	**Drive belts & cooler cover** In case of damage, the vehicle is declared faulty Document with photos	x		Ok
13	**Check fluid levels** Check the max. and min. levels (engine oil, cooling liquid) / top up if below minimum		x	Levels OK
14	**Filler flap (only for evaporative testing)** Check overfill line within filler flap is completely free of residues or flush the hose with hot water.		x	-
15	**Vacuum hoses and electrical wiring** Check all for integrity. In case of damage, the vehicle is declared faulty. Document with photos	x		Ok
16	**Injection valves / cabling** Check all cables and fuel lines. *In case of damage, the vehicle is declared faulty. Document with photos*	x		Ok
17	**Ignition cable (gasoline)** Check spark plugs, cables, etc. *In case of samage, replace them*		x	Ok
18	**EGR & Catalyst, Particle Filter** Check all cables, wires and sensors *In case of tampering, the vehicle cannot be selected.* *In case of damage, the vehicle is declared faulty* *Document with photos*	x		Ok
19	**Safety condition** Check tyres, vehicle's body, electrical and braking system status are in safe conditions for the test and respect road traffic rules *If not, the vehicle cannot be selected*	x		Ok
20	**Semi-trailer** Are there electric cables for semi-traile connection, where required ?		x	-
21	**Aerodynamic modifications** Verify no aftermarket aerodynamics modification that cannot be removed before testing was made (roof boxes, load racking, spoilers, etc.) and no standard aerodynamics components are missing (front deflectors, diffusers, splitters, etc.) *If yes, the vehicle cannot be selected. Document with photos.*	x		No modification

22	**Check if less than 800 km away from next scheduled service, if yes, then perform the service**		x	Ok
23	**All checks requiring OBD connections to be performed before and/or after the end of testing**		x	Done
24	**Powertrain Control Module calibration part number and checksum**		x	Cal ID : 378837836000 N° Cal : $e5 $82 $56 $be
25	**OBD diagnosis (before or after the emissions test)**		x	No default
26	**OBD Service Mode 09 Query (before or after the emissions test)** Read Service Mode 09. Record the information		x	No default
27	**OBD mode 7 (before or after the emissions test)** Read Service Mode 07. Record the information			No default

▼M3

Appendix 1

Criteria for vehicle selection and failed vehicles decision

Selection of Vehicles for In Service Conformity Emissions Testing

			Confidential
Date: 14.03.2022			x
Name of investigator:			x
Location of test: Linas			x
Country of registration (in EU only): Germany		x	

Vehicle Characteristics	**x = Exclusion Criteria**	**X = Checked and reported**	
Registration plate number:		x	x
Mileage: 22.500 km *The vehicle must have between 15 000 km (or 30 000 km for testing evaporative emissions) and 100 000 km*	x		
Date of first registration: 11.08.2020 *The vehicle must be between 6 months (or 12 months for testing evaporative emissions) and 5 years old*	x		
VIN: xxxxxxxxxxxx03636		x	
Emission class and character: Euro 6 / 36AM		x	
Country of registration: Germany *The vehicle must be registered in the EU*	x	x	
Model: Lexus NX 3		x	
Engine code: 2AR		x	
Engine volume (l): 2.494		x	
Engine power (kW): 114		x	
Gearbox type (auto/manual): A/T		x	
Drive axle (FWD/AWD/RWD): FWD		x	
Tyre size (front and rear if different): 225/65 R17		x	
Is the vehicle involved in a recall or service campaign? **If yes: Which one? Has the campaign repairs already been done?** *The repairs must have been done* No	x	x	

▼M3

Vehicle Owner Interview

(the owner will only be asked the main questions and shall have no knowledge of the implications of the replies)

Name of the owner (only available to the accredited inspection body or laboratory/technical service) XXXXXX			x
Contact (address / telephone) (only available to the accredited inspection body or laboratory/technical service) XXXXXX			x
How many owners did the vehicle have? 1		x	
Did the odometer not work? *If yes, the vehicle cannot be selected.* No	x		
Was the vehicle used for one of the following?			
As car used in show-rooms?		x	
As a taxi?		x	
As delivery vehicle?		x	
For racing / motor sports?	x		
As a rental car?		x	
Has the vehicle carried heavy loads over the specifications of the manufacturer? *If yes, the vehicle cannot be selected.* No	x		
Have there been major engine or vehicle repairs? No		x	
Have there been unauthorised major engine or vehicle repairs? *If yes, the vehicle cannot be selected.* No	x		
Has there been a power increase/tuning? *If yes, the vehicle cannot be selected.* No	x		
Was any part of the emissions after-treatment and/or the fuel system replaced? Were original parts used? *If original parts were not used, the vehicle cannot be selected.* No	x	x	
Was any part of the emissions after-treatment system permanently removed? *If yes, the vehicle cannot be selected* No	x		
Were there any unauthorised devices installed (Urea killer, emulator, etc)? *If yes, the vehicle cannot be selected* No	x		

▼M3

Was the vehicle involved in a serious accident? Provide a list of damage and repairs done afterwards No		x	
Has the car been used with a wrong fuel type (i.e. gasoline instead of diesel) in the past? Has the car been used with non-commercially available EU-quality fuel (black market, or blended fuel?) *If yes, the vehicle cannot be selected.* No	x		
Did you use air-fresher, cockpit-spray, brake cleaner or other high hydrocarbon emission source around the vehicle during the last month? *If yes, the vehicle cannot be selected for evaporative testing.* No	x		
Was there a gasoline spill in the inside or outside of the vehicle during the last 3 months? *If yes, the vehicle cannot be selected for evaporative testing.* No	x		
Did anyone smoke in the car during the last 12 months? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Did you apply corrosion protection, stickers, under seal protection, on any other potential sources of volatile compounds to the car? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Was the car repainted? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Where do you use your vehicle more often?			
40 % motorway		x	
30 % rural		x	
30 % urban		x	
Did you drive the vehicle in a non EU Member State for more than 10 % of driving time? *If yes, the vehicle cannot be selected* No	x	—	
In which country was the vehicle refuelled during the last two times? *If the vehicle was refuelled the last two times outside a state applying the EU Fuel Standards, the vehicle cannot be selected.* Germany	x		
Has a fuel additive, not approved by the manufacturer been used? *If yes then the vehicle cannot be selected.* No	x		
Has the vehicle been maintained and used in accordance with the manufacturer's instructions? *If not, the vehicle cannot be selected.* Yes	x		

▼M3

Full service and repair history including any re-works *If the full documentation cannot be provided, the vehicle cannot be selected.* Dokument attached	**x**		

Vehicle Examination and Maintenance

X = Exclusion Criteria/ F = Faulty Vehicle

X = checked and reported

Annex 2: Report n° 22/03323 (report + appendices)

REPORT N° : 22/03323

APPLICANT : **ISSeP**
Zoning A.Schweitzer
Rue de la Platinerie 12
7340 Colfontaine, Belgium

SUBJECT : Check of in-service conformity carried out by the granting type approval authority following the requirements of Article 9 and Annex II of Regulation EU 2017/1151*2018/1832.

VEHICLES SUBMITTED TO TESTS

Manufacturer	:	**TOYOTA MOTOR EUROPE NV/SA**
Make	:	**LEXUS (LEXUS UX250H)**
Type approval number	:	**e6*2007/46*0263**
ISC family	:	**6-JT1-27-2**

MONTLHÉRY, 25/04/2022

Grégory PICARD
Conformity Team Manager

NB : UTAC shall not be liable for any industrial or commercial applications that occur as a result of these tests. This test report may only be reproduced in the form of a full photographic facsimile. Tests results are only available for the materiel submitted to tests or materiel identified in the present test report.

1. Quick overview and main conclusions

The ISC procedures are under the responsibility of the Flemish Type Approval Authority (Mobiliteit en Openbare Werken, Vlaams Huis voor de Verkeersveiligheid, Cel Homologatie). In accordance with the requirements of Annex II of Regulation EU 2018/1832, the vehicles of 1 ISC family of the manufacturer have been submitted to Type 1 (WLTC) and Type 1a (RDE) tests.
The results of the tests performed on the 3 vehicles comply with regulatory requirements.

2. Name and address of the manufacturer

Toyota Motor Europe NV/SA
Avenue du Bourget 60 - Bourgetlaan 60,
1140 Brüssel, Belgien

3. Name, address, telephone and fax numbers and e-mail address of the responsible testing laboratory

UTAC
Autodrome de Linas-Montlhéry
BP 20212
91311 Montlhéry Cedex France
+33 (0)1 69 80 17 00
www.utac.com

4. Model name of the vehicles included in the test plan

LEXUS UX250H (ZA1)

5. List of vehicle types covered within the manufacturer's information, i.e. for tailpipe emissions, the in-service family group

6-JT1-27-2

6. Numbers of the type approvals applicable to these vehicle types within the family, including, where applicable, the numbers of all extensions and field fixes/recalls (re-works)

RCE/WVTA : e6*2007/46*0263*02, Emissions : e6*715/2007*2018/1832AM*0231*02

7. Details of extensions, field fixes/recalls to those type approvals for the vehicles covered within the manufacturer's information (if requested by the approval authority)

/

8. Period of time over which the sales information was collected

01/01/2020 – 31/12/2020

9. Vehicle build period covered

xxxxxxxxxxxx66533 : 06/07/2020
xxxxxxxxxxxx70606 : 31/08/2020
xxxxxxxxxxxx55045 : 01/01/2020

10. ISC checking procedure :

Vehicle sourcing method

Compliance with vehicle eligibility criteria (article 9 and Annex II of Regulation EU 2018/1832)

Vehicle selection and rejection criteria (including the answers to the table in Appendix 1, including photos)

See Annex 2 « Appendices 1 of selected vehicles »

Test types and procedures used for the campain

Type 1 (WLTC) / RDE performed under the conditions defined in Annex IIIa of Regulation EU 2018/1832

The acceptance/rejection criteria for the family group

Compliance with the statistical rule of Table B.2.a of §5.10 of Annex II of Regulation EU 2018/1832

Geographical area(s) within which the manufacturer has collected information

Belgium, Germany and France (information collected by the Flemish Type Appoval Authority (MOW) and ProRent) concerning the vehicles selection and by UTAC concerning the control of the vehicle conformity

Sample size and sampling plan used

3 vehicles selected per ISC family in accordance with Annex II of Regulation EU 2018/1832

11. Results of the ISC procedure :

Identification of the vehicles included in the campain (whether tested or not). The identification shall include the Table in Appendix 1

See annex 2 "Appendices 1 of the selected vehicles"

Test data for tailpipe emissions:

- Test fuel specifications (e.g. test reference fuel or market fuel) :

Reference fuel (see §3 of Annex 1 "Details of test results")

- Test conditions (temperature, humidity, dynamometer inertia weight) :

Vehicle identification number	xxxxxxxxxxxx66533	xxxxxxxxxxxx70606	xxxxxxxxxxxx55045
Test temperature (°C)	24,4	22,0	22,3
Relative humidity (%)	43,3	47,6	47,5
IWR : Inertial Work Rating (%)	1,6	2,5	0,5

- Dynamometer setting (e.g. road load, power setting):

Test mass (kg)	1718	1718	1718
Inertia mass (kg)	1743	1743	1743
f_0 (N)	137,7	137,7	137,7
f_1 (N/(km/h))	0,622	0,622	0,622
f_2 (N/(km/h)²)	0,03542	0,03542	0,03542

- Test results and calculation of pass/fail :

Vehicle identification number	xxxxxxxxxxxx66533	xxxxxxxxxxxx70606	xxxxxxxxxxxx55045
TYPE 1 (WLTC)	Pass	Pass	Pass
RDE	Pass	Pass	Pass

Details of test results: see annex 1 "Details of test results"

Test data for evaporative emissions :

Tests not performed on the selected vehicles

Annex 1 "Details of test results"

1. DESCRIPTION OF TESTED VEHICLE

Vehicle	N° 1	N° 2	N° 3
Make	**LEXUS**	**LEXUS**	**LEXUS**
Commercial designation	**LEXUS UX250H**	**LEXUS UX250H**	**LEXUS UX250H**
Interpolation family	**IP-0063-JT1-1**	**IP-0063-JT1-1**	**IP-0063-JT1-1**
Vehicle number	**xxxxxxxxxxxx66533**	**xxxxxxxxxxxx70606**	**xxxxxxxxxxxx55045**
Category	**M1**	**M1**	**M1**

2. POWERTRAIN ARCHITECTURE

Vehicle	N° 1	N° 2	N° 3
Powertrain architecture	**not off-vehicle charging hybrid**	**not off-vehicle charging hybrid**	**not off-vehicle charging hybrid**
Working principle of internal combustion engine	**positive ignition**	**positive ignition**	**positive ignition**
Gearbox	**continuous variable**	**continuous variable**	**continuous variable**

3. TEST FUEL FOR TYPE 1 TEST

Make	:	**TOTAL**
Type	:	**ULG E10 EURO6 CERT**
Density at 15°C (kg/dm3)	:	**0,746**
Sulphur content (mg/kg)	:	**4,4**
Batch number	:	**PCU050140G**

4. TEST CONDITIONS FOR TYPE 1 TEST

Vehicle	N° 1	N° 2	N° 3
Date of tests	**12/04/2022**	**14/04/2022**	**20/04/2022**
Place of the test	**Bench CE3, Montlhéry, France**	**Bench CE2, Montlhéry, France**	**Bench CE2, Montlhéry, France**
Odometer value at test start (km)	**18356**	**22327**	**19267**
Test mass (kg)	**1718**	**1718**	**1718**
Inertia mass (kg)	**1743**	**1743**	**1743**
f_0 (N)	**137,7**	**137,7**	**137,7**
f_1 (N/(km/h))	**0,622**	**0,622**	**0,622**
f_2 (N/(km/h)²)	**0,03542**	**0,03542**	**0,03542**
Test temperature (°C)	**24,4**	**22,0**	**22,3**
Relative humidity (%)	**43,3**	**47,6**	**47,5**
IWR : Inertial Work Rating (%)	**1,6**	**2,5**	**0,5**
RMSSE: Root Mean Squared Speed Error (km/h)	**0,43**	**0,50**	**0,48**

5. EQUIPMENT USED FOR TYPE 1 TEST

Equipment (CE2 / CE3)	Brand (CE2 / CE3)	Reference (CE2 / CE3)
Diluted gaz analysis bay	**Horiba / Horiba**	**BAI0039 / BAI0046**
Particle counter	**AVL / Horiba**	**EMI0101 / EMI0094**
Weather station	**Vaisala / Kimo**	**SME0005 / SME0006**
Ventilation	**FEV / FEV**	**EMI0100 / EMI0097**
CVS	**Horiba / Horiba**	**EMI0098 / EMI0097**
Roller	**Maha / FEV**	**BRX0019 & BRX0020 / BRX0012**
Dynamometer	**FEV / FEV**	**CPL0012 & CPL0013 / CPL0005**
HFID CE3	**Horiba**	**BAI0047**

6. POLLUTANT EMISSIONS – TYPE 1

Vehicle	Pollutants	CO (mg/km)	THC (mg/km)	NMHC (mg/km)	NO_x (mg/km)	THC+NOx (mg/km)	Particulate Matter (mg/km)	Particle Number (#.10^{11}/km)
N° 1	Measured values	127,19	11,09	7,98	1,82	-	0,13	0,57
	Regeneration factors (Ki)	-	-	-	-	-	-	-
	Final values	**127,2**	**11,1**	**8,0**	**1,8**	**-**	**0,13**	**0,57**
	Limit values	**1000**	**100**	**68**	**60**	**-**	**4,5**	**6,0**
	Final result	**Compliant**						
N°2	Measured values	128,19	10,74	9,20	1,60	-	0,08	0,75
	Regeneration factors (Ki)	-	-	-	-	-	-	-
	Final values	**128,2**	**10,7**	**9,2**	**1,6**	**-**	**0,08**	**0,75**
	Limit values	**1000**	**100**	**68**	**60**	**-**	**4,5**	**6,0**
	Final result	**Compliant**						
N°3	Measured values	113,39	9,09	8,05	1,86	-	0,12	0,61
	Regeneration factors (Ki)	-	-	-	-	-	-	-
	Final values	**113,4**	**9,1**	**8,1**	**1,9**	**-**	**0,12**	**0,61**
	Limit values	**1000**	**100**	**68**	**60**	**-**	**4,5**	**6,0**
	Final result	**Compliant**						

n.a. : not applicable

7. MESURED CO2 EMISSION (STEP 1) - TYPE 1

Vehicle	Phase 1 (Low) (g/km)	Phase 2 (Medium) (g/km)	Phase 3 (High) (g/km)	Phase 4 (Extra High) (g/km)	Global (g/km)
N°1	**93,65**	**112,14**	**97,08**	**130,82**	**111,67**
N°2	**100,31**	**115,12**	**101,11**	**128,47**	**113,57**
N°3	**93,21**	**108,42**	**102,39**	**125,74**	**110,69**

8. RDE FAMILY CRITERIA

Family reference : **6-JT1-27-2**

9. DECLARED CO2 VALUES FROM COC

CO_2 Emission (g/km)	Vehicle N°1	Vehicle N°2	Vehicle N°3
Low	**116**	**116**	**116**
Mid	**104**	**104**	**104**
High	**110**	**110**	**110**
Extra-High	**151**	**151**	**151**
Combined	**124**	**124**	**124**

10. TEST CONDITIONS FOR RDE TEST

	Vehicle N°1	Vehicle N°2	Vehicle N°3
Date of tests	**07/04/2022**	**12/04/2022**	**14/04/2022**
Place of tests	**Montlhéry, France**	**Montlhéry, France**	**Montlhéry, France**
Hot start	**yes**	**no**	**yes**
Odometer value at test start (km)	**18176**	**22179**	**19063**
Odometer value at test end (km)	**18262**	**22263**	**19151**
Artificial payload (% deviation from the payload)	**27**	**49**	**37**
PEMS validation procedure (carried out on tested vehicles)	**carried out**	**carried out**	**carried out**

11. POLLUTANT EMISSIONS - RDE

Vehicle		N° 1			N° 2			N° 3		
Pollutants emissions		NOx [mg/km]	CO [mg/km]	PN [#.10^{11}/km]	NOx [mg/km]	CO [mg/km]	PN [#.10^{11}/km]	NOx [mg/km]	CO [mg/km]	PN [#.10^{11}/km]
Urban trip	Measured values $m_{RDE,u}$	2,8	45,4	0,56	2,8	94,0	0,94	2,8	104,9	0,62
	Evaluation factor RF_u	1,0000			1,0000			1,0000		
	Calculated values $M_{RDE,u}$	2,8	45,4	0,56	2,8	94,0	0,94	2,8	104,9	0,62
	Regeneration factors (Ki)	-	-	-	-	-	-	-	-	-
	Final values	**2,8**	**45,4**	**0,56**	**2,8**	**94,0**	**0,94**	**2,8**	**104,9**	**0,62**
	Conformity factors	**0,05**	**s.o. / *n.a.***	**0,09**	**0,05**	**s.o. / *n.a.***	**0,16**	**0,05**	**s.o. / *n.a.***	**0,10**
Total trip	Measured values $m_{RDE,u}$	5,3	319,6	1,12	3,5	535,5	1,13	3,1	2266,1	1,39
	Evaluation factor RF_u	1,0000			1,0000			1,0000		
	Calculated values $M_{RDE,u}$	5,3	319,6	1,12	3,5	535,5	1,13	3,1	2266,1	1,39
	Regeneration factors (Ki)	-	-	-	-	-	-	-	-	-
	Final values	**5,3**	**319,6**	**1,12**	**3,5**	**535,5**	**1,13**	3,1	2266,1	1,39
	Conformity factors	**0,09**	**s.o. / *n.a.***	**0,19**	**0,06**	**s.o. / *n.a.***	**0,19**	**0,05**	**s.o. / *n.a.***	**0,23**
Limit values	Applicable Euro 6 limits	60	1000	6,0	60	1000	6,0	60	1000	6,0
	Conformity factors	1 + 0,43	s.o. / *n.a.*	1+ 0,50	1 + 0,43	s.o. / *n.a.*	1+ 0,50	1 + 0,43	s.o. / *n.a.*	1+ 0,50
	Not to exceed limits	**85,8**	**s.o. / *n.a.***	**9,0**	**85,8**	**s.o. / *n.a.***	**9,0**	**85,8**	**s.o. / *n.a.***	**9,0**
Final result		**Compliant**			**Compliant**			**Compliant**		

n.a. : not applicable

12. MESURED CO2 EMISSION – RDE

Vehicle	Urban (g/km)	Rural (g/km)	Motorway (g/km)	Trip (g/km)
N°1	**106,28**	**124,97**	**138,66**	**122,87**
N°2	**120,66**	**113,10**	**115,80**	**116,77**
N°3	**122,40**	**116,70**	**151,00**	**130,01**

13. RDE TESTS CHARACTERISTICS

Parameter		N°1	N°2	N°3	Legislation bundaries
Trip Duration (min:s)		**94:10**	**97:49**	**93:04**	**90-120min**
Trip Distance (km)		**88,22**	**85,29**	**88,28**	**> 46 km**
Stop Duration (% of urban)		**9,9%**	**8,5%**	**9,3%**	**6-30%**
Distance share (%) (and typical km-distance)	Urban	**33,7% (30 km)**	**38,0% (32 km)**	**33,9% (30 km)**	**29-44% & > 16 km**
	Rural	**35,6% (31 km)**	**32,6% (28 km)**	**33,0% (29 km)**	**23-43% & > 16 km**
	Motorway	**30,7% (27 km)**	**29,5% (25 km)**	**33,2% (29 km)**	**23-43% & > 16 km**
Average Speed (km/h)	Urban	**31,98**	**30,57**	**32,23**	**15-40 km/h**
	Rural	**77,40**	**79,58**	**79,07**	**60-90 km/h**
	Motorway	**115,84**	**113,26**	**114,71**	**100-145 km/h**
Motorway (>100km/h) (min:s)		**12:26**	**10:44**	**12:12**	**> 5 min**
Max altitude (m)		**170**	**172**	**171**	**< 700m**
Altitude difference (end-start) (m)		**3**	**65**	**15**	**< 100 m**
Minimum Temperature (°C)		**10,5**	**13,9**	**15,2**	**3°C (-2°C ; 3°C)**
Maximum Temperature (°C)		**13,6**	**19,7**	**18,8**	**30°C (30°C ; 35°C)**
V*Apos_95% (W/kg) (m^2/s^3)	Urban	**13,905**	**14,241**	**11,589**	**<=18.622 (m^2/s^3)**
	Rural	**19,761**	**16,869**	**18,110**	**<=24.7 (m^2/s^3)**
	Motorway	**21,711**	**22,529**	**22,957**	**<=28.016 (m^2/s^3)**
RPA (m/s^2)	Urban	**0,201**	**0,214**	**0,238**	**>= 0.126 (m/s^2)**
	Rural	**0,083**	**0,085**	**0,115**	**>= 0.052 (m/s^2)**
	Motorway	**0,104**	**0,080**	**0,119**	**>= 0.025 (m/s^2)**

14. EQUIPMENT USED FOR RDE TEST

Vehicle	PN (AVL)	Exhaust flowmeter (AVL)	Gaz analyser (AVL)
N°1	**EMI0129**	**DEG0074**	**ANA0150**
N°2	**EMI0129**	**DEG0074**	**ANA0150**
N°3	**EMI0124**	**DEG0081**	**ANA0147**

15. CORRELATION BETWEEN PEMS AND CVS

Vehicle 1						
	PEMS result	CVS result	Difference	Difference	Tolerance	Assessment
CO2 (g/km)	**117,0**	**118,3**	**-1,3**	**-1,1 %**	**+/- 10 g/km** *or* 10 %	**Passed**
CO (mg/km)	**129,1**	**146,6**	**-17,5**	**-11,9 %**	**+/- 150 mg/km** *or* 15 %	**Passed**
NOx (mg/km)	**2,5**	**2,0**	**0,5**	**27,0 %**	**+/- 15 mg/km** *or* 15 %	**Passed**
PN (#/km)	**5,4E+10**	**5,3E+10**	**1,5E+09**	**2,8 %**	**+/- 1,0E11#/km** *or* 50%	**Passed**
Distance (m)	**22708**	**23263**	**-555**	**-**	**+/- 250m**	**Failed**

Vehicle 2						
	PEMS result	CVS result	Difference	Difference	Tolerance	Assessment
CO2 (g/km)	**117,2**	**116,3**	**0,9**	**0,8 %**	**+/- 10 g/km** *or* 10 %	**Passed**
CO (mg/km)	**79,8**	**90,2**	**-10,4**	**-11,5 %**	**+/- 150 mg/km** *or* 15 %	**Passed**
NOx (mg/km)	**5,2**	**5,0**	**0,1**	**2,7 %**	**+/- 15 mg/km** *or* 15 %	**Passed**
PN (#/km)	**2,3E+11**	**2,6E+11**	**-2,5E+10**	**-10,1 %**	**+/- 1,0E11#/km** *or* 50%	**Passed**
Distance (m)	**22970**	**23269**	**-299**	**-**	**+/- 250m**	**Failed**

Vehicle 3						
	PEMS result	CVS result	Difference	Difference	Tolerance	Assessment
CO2 (g/km)	121,9	118,6	3,30	2,8 %	**+/- 10 g/km** *or* 10 %	**Passed**
CO (mg/km)	108,4	110,9	-2,5	-2,3 %	**+/- 150 mg/km** *or* 15 %	**Passed**
NOx (mg/km)	1,8	1,9	-0,2	-8,3 %	**+/- 15 mg/km** *or* 15 %	**Passed**
PN (#/km)	4,9E+10	5,9E+10	-9,1E+09	-15,5 %	**+/- 1,0E11#/km** *or* 50%	**Passed**
Distance (m)	22855	23253	398	-	**+/- 250m**	**Failed**

Annex 2 "Appendices 1 of the selected vehicles"

Appendice 1

Criteria for vehicle selection and failed vehicles decision

Selection of Vehicles for In Service Conformity Emissions Testing

	x=exclusion criteria	X = checked & reported	Confidential	
Date :			x	24/03/2022
Name of investigator :			x	UTAC
Location of test :			x	UTAC / Montlhéry
Country of registration (in EU only):		X		GERMANY
Registration plate number :		x	x	D MY400
Mileage : The vehicle must have between 15 000 km (or 30 000 km for testing evaporative emissions) and 100 000 km	x			24 480 km
Date of first registration : The vehicle must be between 6 months (or 12 months for testing evaporative emissions) and 5 years old	x			28/01/2021
VIN :		x		xxxxxxxxxxxx66533
Emission class and character :		x		715/2007*2018/1832AMEURO6
Country of registration : The vehicle must be registered in the EU	x	x		GERMANY
Model :		x		UX250H (ZA1)
Engine code :		x		M20A
Engine volume [l] :		x		1.987
Engine power (kW) :		x		112
Gearbox type (auto/manual) :		x		CVT
Drive axle (FWD/AWD/RWD) :		x		FWD
Tire size (front and rear if different) :		x		225/50 R18
Is the vehicle involved in a recall or service campain ? If yes : Which one ? Has the campain repairs already been done ? *The repairs must have been done*	x	x		No

	Vehicle Examination and Maintenance	X = exclusion criteria / F = faulty vehicle	X = checked and reported	
1	**Fuel tank level (full / empty)** *Is the fuel reserve light ON ? If yes, refuel before test*		x	Level done with reference fuel after enptying procedure (Fuel form available in the folder)
2	**Are there any warning lights on the instrument panel activated indicating a vehicle or exhaust after-treatment system malfunctioning that cannot be resolve by normal maintenance ? (Malfunction Indication Light, Engine Service Light, etc ?)** *If yes, the vehicle cannot be selected*	x	x	No
3	**Is the SCR light on after engine-on ?** *If yes, the AdBlue should be filled in, or the repair executed before the vehicle is used for testing*	x		No
4	**Visual inspection exhaust system** Check leaks between exhaust manifold and end of tailpipe. Check and document (with photos) *If there is damage of leaks, the vehicle is declared faulty*	x		No leak detected
5	**Exhaust gas relevant components** Check and document (with photos) all emissions relevant components for damage *If there is damage, the vehicle is declared faulty*	x		Ok (see photos)
6	**Evap system :** Pressurize fuel-system (from canister side), testing for leaks in a constant ambient temperature environment, FID sniff test around and in the vehicle. *If the FID sniff test is not passed, the vehicle is declared faulty*	x		-
7	**Fuel sample** Collect fuel sample from the fuel tank		x	Fuel form in the folder
8	**Air filter and oil filter** Check for contamination and damage and change if damaged or heavily contaminated of less than 800 km before the next recommended change		x	Ok
9	**Window washer fluid (only for evaporative testing)** Remove window washer fluid and fill tank with hot water		x	-
10	**Wheels (front and rear)** Check whether the wheels are freely moveable of blocked by the brake *If not, the vehicle cannot be selected*	x		No hard point

11	**Tyres (only for evaporative testing)** Remove spare tyre, change to stabilised tyres if the tyres were changes less than 15 000 km ago Use summer and all season tyres only		x	-
12	**Drive belts & cooler cover** In case of damage, the vehicle is declared faulty Document with photos	x		Ok
13	**Check fluid levels** Check the max. and min. levels (engine oil, cooling liquid) / top up if below minimum		x	Levels OK
14	**Filler flap (only for evaporative testing)** Check overfill line within filler flap is completely free of residues or flush the hose with hot water.		x	-
15	**Vacuum hoses and electrical wiring** Check all for integrity. In case of damage, the vehicle is declared faulty. Document with photos	x		Ok
16	**Injection valves / cabling** Check all cables and fuel lines. *In case of damage, the vehicle is declared faulty. Document with photos*	x		Ok
17	**Ignition cable (gasoline)** Check spark plugs, cables, etc. *In case of samage, replace them*		x	Ok
18	**EGR & Catalyst, Particle Filter** Check all cables, wires and sensors *In case of tampering, the vehicle cannot be selected.* *In case of damage, the vehicle is declared faulty* *Document with photos*	x		Ok
19	**Safety condition** Check tyres, vehicle's body, electrical and braking system status are in safe conditions for the test and respect road traffic rules *If not, the vehicle cannot be selected*	x		Ok
20	**Semi-trailer** Are there electric cables for semi-traile connection, where required ?		x	-
21	**Aerodynamic modifications** Verify no aftermarket aerodynamics modification that cannot be removed before testing was made (roof boxes, load racking, spoilers, etc.) and no standard aerodynamics components are missing (front deflectors, diffusers, splitters, etc.) *If yes, the vehicle cannot be selected. Document with photos.*	x		No modification

22	**Check if less than 800 km away from next scheduled service, if yes, then perform the service**		x	Ok
23	**All checks requiring OBD connections to be performed before and/or after the end of testing**		x	Done
24	**Powertrain Control Module calibration part number and checksum**		x	Cal ID : 898637623000 N° Cal : $f8 $c7 $cf $8d
25	**OBD diagnosis (before or after the emissions test)**		x	No default
26	**OBD Service Mode 09 Query (before or after the emissions test)** Read Service Mode 09. Record the information		x	No default
27	**OBD mode 7 (before or after the emissions test)** Read Service Mode 07. Record the information			No default

▼M3

Appendix 1

Criteria for vehicle selection and failed vehicles decision

Selection of Vehicles for In Service Conformity Emissions Testing

			Confidential
Date: 17.03.2022			x
Name of investigator:			x
Location of test: Linas			x
Country of registration (in EU only): Germany		x	

Vehicle Characteristics	**x = Exclusion Criteria**	**X = Checked and reported**	
Registration plate number:		x	x
Mileage: 20.000 km *The vehicle must have between 15 000 km (or 30 000 km for testing evaporative emissions) and 100 000 km*	x		
Date of first registration: 28.01.2021 *The vehicle must be between 6 months (or 12 months for testing evaporative emissions) and 5 years old*	x		
VIN: xxxxxxxxxxxx66533		x	
Emission class and character: Euro 6 / 36AM		x	
Country of registration: Germany *The vehicle must be registered in the EU*	x	x	
Model: LexusUX250		x	
Engine code: M20A		x	
Engine volume (l): 1.987		x	
Engine power (kW): 112		x	
Gearbox type (auto/manual): A/T		x	
Drive axle (FWD/AWD/RWD): FWD		x	
Tyre size (front and rear if different): 225/50 R18		x	
Is the vehicle involved in a recall or service campaign? **If yes: Which one? Has the campaign repairs already been done?** *The repairs must have been done* No	x	x	

▼M3

Vehicle Owner Interview

(the owner will only be asked the main questions and shall have no knowledge of the implications of the replies)

Name of the owner (only available to the accredited inspection body or laboratory/technical service)			x
Contact (address / telephone) (only available to the accredited inspection body or laboratory/technical service)			x

How many owners did the vehicle have? 1		x	
Did the odometer not work? *If yes, the vehicle cannot be selected.* No	x		
Was the vehicle used for one of the following?			
As car used in show-rooms?		x	
As a taxi?		x	
As delivery vehicle?		x	
For racing / motor sports?	x		
As a rental car?		x	
Has the vehicle carried heavy loads over the specifications of the manufacturer? *If yes, the vehicle cannot be selected.* No	x		
Have there been major engine or vehicle repairs? No		x	
Have there been unauthorised major engine or vehicle repairs? *If yes, the vehicle cannot be selected.* No	x		
Has there been a power increase/tuning? *If yes, the vehicle cannot be selected.* No	x		
Was any part of the emissions after-treatment and/or the fuel system replaced? Were original parts used? *If original parts were not used, the vehicle cannot be selected.* No	x	x	
Was any part of the emissions after-treatment system permanently removed? *If yes, the vehicle cannot be selected* No	x		
Were there any unauthorised devices installed (Urea killer, emulator, etc)? *If yes, the vehicle cannot be selected* No	x		

▼M3

Was the vehicle involved in a serious accident? Provide a list of damage and repairs done afterwards No		x	
Has the car been used with a wrong fuel type (i.e. gasoline instead of diesel) in the past? Has the car been used with non-commercially available EU-quality fuel (black market, or blended fuel?) *If yes, the vehicle cannot be selected.* No	x		
Did you use air-fresher, cockpit-spray, brake cleaner or other high hydrocarbon emission source around the vehicle during the last month? *If yes, the vehicle cannot be selected for evaporative testing.* No	x		
Was there a gasoline spill in the inside or outside of the vehicle during the last 3 months? *If yes, the vehicle cannot be selected for evaporative testing.* No	x		
Did anyone smoke in the car during the last 12 months? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Did you apply corrosion protection, stickers, under seal protection, on any other potential sources of volatile compounds to the car? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Was the car repainted? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Where do you use your vehicle more often?			
40 % motorway		x	
30 % rural		x	
30 % urban		x	
Did you drive the vehicle in a non EU Member State for more than 10 % of driving time? *If yes, the vehicle cannot be selected* No	x	—	
In which country was the vehicle refuelled during the last two times? *If the vehicle was refuelled the last two times outside a state applying the EU Fuel Standards, the vehicle cannot be selected.* Germany	x		
Has a fuel additive, not approved by the manufacturer been used? *If yes then the vehicle cannot be selected.* No	x		
Has the vehicle been maintained and used in accordance with the manufacturer's instructions? *If not, the vehicle cannot be selected.* Yes	x		

▼M3

Full service and repair history including any re-works *If the full documentation cannot be provided, the vehicle cannot be selected.* Dokument attached	x		

Vehicle Examination and Maintenance	X = Exclusion Criteria/ F = Faulty Vehicle	X = checked and reported

Appendice 1

Criteria for vehicle selection and failed vehicles decision

Selection of Vehicles for In Service Conformity Emissions Testing

	x=exclusion criteria	X = checked & reported	Confidential	
Date :			x	07/04/2022
Name of investigator :			x	UTAC
Location of test :			x	UTAC / Montlhéry
Country of registration (in EU only):		X		GERMANY
Registration plate number :		x	x	-
Mileage : The vehicle must have between 15 000 km (or 30 000 km for testing evaporative emissions) and 100 000 km	x			22 155 km
Date of first registration : The vehicle must be between 6 months (or 12 months for testing evaporative emissions) and 5 years old	x			03/2021
VIN :		x		xxxxxxxxxxxx70606
Emission class and character :		x		715/2007*2018/1832AMEURO6
Country of registration : The vehicle must be registered in the EU	x	x		GERMANY
Model :		x		UX250H (ZA1)
Engine code :		x		M20A
Engine volume [l] :		x		1.987
Engine power (kW) :		x		112
Gearbox type (auto/manual) :		x		CVT
Drive axle (FWD/AWD/RWD) :		x		FWD
Tire size (front and rear if different) :		x		225/50 R18
Is the vehicle involved in a recall or service campain ? If yes : Which one ? Has the campain repairs already been done ? *The repairs must have been done*	x	x		No

	Vehicle Examination and Maintenance	X = exclusion criteria / F = faulty vehicle	X = checked and reported	
1	**Fuel tank level (full / empty)** *Is the fuel reserve light ON ? If yes, refuel before test*		x	Level done with reference fuel after enptying procedure (Fuel form available in the folder)
2	**Are there any warning lights on the instrument panel activated indicating a vehicle or exhaust after-treatment system malfunctioning that cannot be resolve by normal maintenance ? (Malfunction Indication Light, Engine Service Light, etc ?)** *If yes, the vehicle cannot be selected*	x	x	No
3	**Is the SCR light on after engine-on ?** *If yes, the AdBlue should be filled in, or the repair executed before the vehicle is used for testing*	x		No
4	**Visual inspection exhaust system** Check leaks between exhaust manifold and end of tailpipe. Check and document (with photos) *If there is damage of leaks, the vehicle is declared faulty*	x		No leak detected
5	**Exhaust gas relevant components** Check and document (with photos) all emissions relevant components for damage *If there is damage, the vehicle is declared faulty*	x		Ok (see photos)
6	**Evap system :** Pressurize fuel-system (from canister side), testing for leaks in a constant ambient temperature environment, FID sniff test around and in the vehicle. *If the FID sniff test is not passed, the vehicle is declared faulty*	x		-
7	**Fuel sample** Collect fuel sample from the fuel tank		x	Fuel form in the folder
8	**Air filter and oil filter** Check for contamination and damage and change if damaged or heavily contaminated of less than 800 km before the next recommended change		x	Ok
9	**Window washer fluid (only for evaporative testing)** Remove window washer fluid and fill tank with hot water		x	-
10	**Wheels (front and rear)** Check whether the wheels are freely moveable of blocked by the brake *If not, the vehicle cannot be selected*	x		No hard point

11	**Tyres (only for evaporative testing)** Remove spare tyre, change to stabilised tyres if the tyres were changes less than 15 000 km ago Use summer and all season tyres only		x	-
12	**Drive belts & cooler cover** In case of damage, the vehicle is declared faulty Document with photos	x		Ok
13	**Check fluid levels** Check the max. and min. levels (engine oil, cooling liquid) / top up if below minimum		x	Levels OK
14	**Filler flap (only for evaporative testing)** Check overfill line within filler flap is completely free of residues or flush the hose with hot water.		x	-
15	**Vacuum hoses and electrical wiring** Check all for integrity. In case of damage, the vehicle is declared faulty. Document with photos	x		Ok
16	**Injection valves / cabling** Check all cables and fuel lines. *In case of damage, the vehicle is declared faulty. Document with photos*	x		Ok
17	**Ignition cable (gasoline)** Check spark plugs, cables, etc. *In case of samage, replace them*		x	Ok
18	**EGR & Catalyst, Particle Filter** Check all cables, wires and sensors *In case of tampering, the vehicle cannot be selected.* *In case of damage, the vehicle is declared faulty* *Document with photos*	x		Ok
19	**Safety condition** Check tyres, vehicle's body, electrical and braking system status are in safe conditions for the test and respect road traffic rules *If not, the vehicle cannot be selected*	x		Ok
20	**Semi-trailer** Are there electric cables for semi-traile connection, where required ?		x	-
21	**Aerodynamic modifications** Verify no aftermarket aerodynamics modification that cannot be removed before testing was made (roof boxes, load racking, spoilers, etc.) and no standard aerodynamics components are missing (front deflectors, diffusers, splitters, etc.) *If yes, the vehicle cannot be selected. Document with photos.*	x		No modification

22	**Check if less than 800 km away from next scheduled service, if yes, then perform the service**		x	Ok
23	**All checks requiring OBD connections to be performed before and/or after the end of testing**		x	Done
24	**Powertrain Control Module calibration part number and checksum**		x	Cal ID : 898637623000 N° Cal : $f8 $c7 $cf $91
25	**OBD diagnosis (before or after the emissions test)**		x	No default
26	**OBD Service Mode 09 Query (before or after the emissions test)** Read Service Mode 09. Record the information		x	No default
27	**OBD mode 7 (before or after the emissions test)** Read Service Mode 07. Record the information			No default

▼M3

Appendix 1

Criteria for vehicle selection and failed vehicles decision

Selection of Vehicles for In Service Conformity Emissions Testing

			Confidential
Date: 04.04.2022			x
Name of investigator:			x
Location of test: Linas			x
Country of registration (in EU only): Germany		x	

Vehicle Characteristics	**x = Exclusion Criteria**	**X = Checked and reported**	
Registration plate number:		x	x
Mileage: 18.943 km *The vehicle must have between 15 000 km (or 30 000 km for testing evaporative emissions) and 100 000 km*	x		
Date of first registration: 10/2020 *The vehicle must be between 6 months (or 12 months for testing evaporative emissions) and 5 years old*	x		
VIN: xxxxxxxxxxxx55045		x	
Emission class and character: Euro6 AM		x	
Country of registration: Germany *The vehicle must be registered in the EU*	x	x	
Model: Lexus UX 250		x	
Engine code: M20A		x	
Engine volume (l): 1.987		x	
Engine power (kW): 112 KW		x	
Gearbox type (auto/manual): A/T		x	
Drive axle (FWD/AWD/RWD): FWD		x	
Tyre size (front and rear if different): 18 inch		x	
Is the vehicle involved in a recall or service campaign? **If yes: Which one? Has the campaign repairs already been done?** *The repairs must have been done* No	x	x	

▼M3

Vehicle Owner Interview

(the owner will only be asked the main questions and shall have no knowledge of the implications of the replies)

Name of the owner (only available to the accredited inspection body or laboratory/technical service)	/		x
Contact (address / telephone) (only available to the accredited inspection body or laboratory/technical service)	/		x

How many owners did the vehicle have? 1		x	
Did the odometer not work? *If yes, the vehicle cannot be selected.* No	x		
Was the vehicle used for one of the following?			
As car used in show-rooms?		x	
As a taxi?		x	
As delivery vehicle?		x	
For racing / motor sports?	x		
As a rental car?		x	
Has the vehicle carried heavy loads over the specifications of the manufacturer? *If yes, the vehicle cannot be selected.* No	x		
Have there been major engine or vehicle repairs? No		x	
Have there been unauthorised major engine or vehicle repairs? *If yes, the vehicle cannot be selected.* No	x		
Has there been a power increase/tuning? *If yes, the vehicle cannot be selected.* No	x		
Was any part of the emissions after-treatment and/or the fuel system replaced? Were original parts used? *If original parts were not used, the vehicle cannot be selected.* No	x	x	
Was any part of the emissions after-treatment system permanently removed? *If yes, the vehicle cannot be selected* No	x		
Were there any unauthorised devices installed (Urea killer, emulator, etc)? *If yes, the vehicle cannot be selected* No	x		

▼M3

Was the vehicle involved in a serious accident? Provide a list of damage and repairs done afterwards No		x	
Has the car been used with a wrong fuel type (i.e. gasoline instead of diesel) in the past? Has the car been used with non-commercially available EU-quality fuel (black market, or blended fuel?) *If yes, the vehicle cannot be selected.* No	x		
Did you use air-fresher, cockpit-spray, brake cleaner or other high hydrocarbon emission source around the vehicle during the last month? *If yes, the vehicle cannot be selected for evaporative testing.* No	x		
Was there a gasoline spill in the inside or outside of the vehicle during the last 3 months? *If yes, the vehicle cannot be selected for evaporative testing.* No	x		
Did anyone smoke in the car during the last 12 months? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Did you apply corrosion protection, stickers, under seal protection, on any other potential sources of volatile compounds to the car? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Was the car repainted? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Where do you use your vehicle more often?			
40 % motorway		x	
30 % rural		x	
30 % urban		x	
Did you drive the vehicle in a non EU Member State for more than 10 % of driving time? *If yes, the vehicle cannot be selected* No	x	—	
In which country was the vehicle refuelled during the last two times? *If the vehicle was refuelled the last two times outside a state applying the EU Fuel Standards, the vehicle cannot be selected.* Germany	x		
Has a fuel additive, not approved by the manufacturer been used? *If yes then the vehicle cannot be selected.* No	x		
Has the vehicle been maintained and used in accordance with the manufacturer's instructions? *If not, the vehicle cannot be selected.* Yes	x		

▼M3

Full service and repair history including any re-works *If the full documentation cannot be provided, the vehicle cannot be selected.* Dokument attached	x		

Vehicle Examination and Maintenance	X = Exclusion Criteria/ F = Faulty Vehicle	X = checked and reported

Appendice 1

Criteria for vehicle selection and failed vehicles decision

Selection of Vehicles for In Service Conformity Emissions Testing

	x=exclusion criteria	X = checked & reported	Confidential	
Date :			x	08/04/2022
Name of investigator :			x	UTAC
Location of test :			x	UTAC / Montlhéry
Country of registration (in EU only):		X		GERMANY
Registration plate number :		x	x	-
Mileage : The vehicle must have between 15 000 km (or 30 000 km for testing evaporative emissions) and 100 000 km	x			18 951 km
Date of first registration : The vehicle must be between 6 months (or 12 months for testing evaporative emissions) and 5 years old	x			10/2020
VIN :		x		xxxxxxxxxxxx55045
Emission class and character :		x		715/2007*2018/1832AMEURO6
Country of registration : The vehicle must be registered in the EU	x	x		GERMANY
Model :		x		UX250H (ZA1)
Engine code :		x		M20A
Engine volume [l] :		x		1.987
Engine power (kW) :		x		112
Gearbox type (auto/manual) :		x		CVT
Drive axle (FWD/AWD/RWD) :		x		FWD
Tire size (front and rear if different) :		x		225/50 R18
Is the vehicle involved in a recall or service campain ? If yes : Which one ? Has the campain repairs already been done ? *The repairs must have been done*	x	x		No

	Vehicle Examination and Maintenance	X = exclusion criteria / F = faulty vehicle	X = checked and reported	
1	**Fuel tank level (full / empty)** *Is the fuel reserve light ON ? If yes, refuel before test*		x	Level done with reference fuel after enptying procedure (Fuel form available in the folder)
2	**Are there any warning lights on the instrument panel activated indicating a vehicle or exhaust after-treatment system malfunctioning that cannot be resolve by normal maintenance ? (Malfunction Indication Light, Engine Service Light, etc ?)** *If yes, the vehicle cannot be selected*	x	x	No
3	**Is the SCR light on after engine-on ?** *If yes, the AdBlue should be filled in, or the repair executed before the vehicle is used for testing*	x		No
4	**Visual inspection exhaust system** Check leaks between exhaust manifold and end of tailpipe. Check and document (with photos) *If there is damage of leaks, the vehicle is declared faulty*	x		No leak detected
5	**Exhaust gas relevant components** Check and document (with photos) all emissions relevant components for damage *If there is damage, the vehicle is declared faulty*	x		Ok (see photos)
6	**Evap system :** Pressurize fuel-system (from canister side), testing for leaks in a constant ambient temperature environment, FID sniff test around and in the vehicle. *If the FID sniff test is not passed, the vehicle is declared faulty*	x		-
7	**Fuel sample** Collect fuel sample from the fuel tank		x	Fuel form in the folder
8	**Air filter and oil filter** Check for contamination and damage and change if damaged or heavily contaminated of less than 800 km before the next recommended change		x	Ok
9	**Window washer fluid (only for evaporative testing)** Remove window washer fluid and fill tank with hot water		x	-
10	**Wheels (front and rear)** Check whether the wheels are freely moveable of blocked by the brake *If not, the vehicle cannot be selected*	x		No hard point

11	**Tyres (only for evaporative testing)** Remove spare tyre, change to stabilised tyres if the tyres were changes less than 15 000 km ago Use summer and all season tyres only		x	-
12	**Drive belts & cooler cover** In case of damage, the vehicle is declared faulty Document with photos	x		Ok
13	**Check fluid levels** Check the max. and min. levels (engine oil, cooling liquid) / top up if below minimum		x	Levels OK
14	**Filler flap (only for evaporative testing)** Check overfill line within filler flap is completely free of residues or flush the hose with hot water.		x	-
15	**Vacuum hoses and electrical wiring** Check all for integrity. In case of damage, the vehicle is declared faulty. Document with photos	x		Ok
16	**Injection valves / cabling** Check all cables and fuel lines. *In case of damage, the vehicle is declared faulty. Document with photos*	x		Ok
17	**Ignition cable (gasoline)** Check spark plugs, cables, etc. *In case of samage, replace them*		x	Ok
18	**EGR & Catalyst, Particle Filter** Check all cables, wires and sensors *In case of tampering, the vehicle cannot be selected.* *In case of damage, the vehicle is declared faulty* *Document with photos*	x		Ok
19	**Safety condition** Check tyres, vehicle's body, electrical and braking system status are in safe conditions for the test and respect road traffic rules *If not, the vehicle cannot be selected*	x		Ok
20	**Semi-trailer** Are there electric cables for semi-traile connection, where required ?		x	-
21	**Aerodynamic modifications** Verify no aftermarket aerodynamics modification that cannot be removed before testing was made (roof boxes, load racking, spoilers, etc.) and no standard aerodynamics components are missing (front deflectors, diffusers, splitters, etc.) *If yes, the vehicle cannot be selected. Document with photos.*	x		No modification

22	**Check if less than 800 km away from next scheduled service, if yes, then perform the service**		x	Ok
23	**All checks requiring OBD connections to be performed before and/or after the end of testing**		x	Done
24	**Powertrain Control Module calibration part number and checksum**		x	Cal ID : 898637623000 N° Cal : $f8 $c7 $cf $91
25	**OBD diagnosis (before or after the emissions test)**		x	No default
26	**OBD Service Mode 09 Query (before or after the emissions test)** Read Service Mode 09. Record the information		x	No default
27	**OBD mode 7 (before or after the emissions test)** Read Service Mode 07. Record the information			No default

▼M3

Appendix 1

Criteria for vehicle selection and failed vehicles decision

Selection of Vehicles for In Service Conformity Emissions Testing

			Confidential
Date: 25.03.2022			x
Name of investigator:			x
Location of test: Linas			x
Country of registration (in EU only): Germany		x	

Vehicle Characteristics	**x = Exclusion Criteria**	**X = Checked and reported**	
Registration plate number:		x	x
Mileage: 22.000 km *The vehicle must have between 15 000 km (or 30 000 km for testing evaporative emissions) and 100 000 km*	x		
Date of first registration: 03/2021 *The vehicle must be between 6 months (or 12 months for testing evaporative emissions) and 5 years old*	x		
VIN: xxxxxxxxxxxx70606		x	
Emission class and character: Euro6 AM		x	
Country of registration: Germany *The vehicle must be registered in the EU*	x	x	
Model: Lexus UX 250		x	
Engine code: M20A		x	
Engine volume (l): 1.987		x	
Engine power (kW): 112 KW		x	
Gearbox type (auto/manual): A/T		x	
Drive axle (FWD/AWD/RWD): FWD		x	
Tyre size (front and rear if different): 18 inch		x	
Is the vehicle involved in a recall or service campaign? **If yes: Which one? Has the campaign repairs already been done?** *The repairs must have been done* No	x	x	

▼M3

Vehicle Owner Interview

(the owner will only be asked the main questions and shall have no knowledge of the implications of the replies)

Name of the owner (only available to the accredited inspection body or laboratory/technical service)	/		x
Contact (address / telephone) (only available to the accredited inspection body or laboratory/technical service)	/		x

How many owners did the vehicle have? 1		x	
Did the odometer not work? *If yes, the vehicle cannot be selected.* No	x		
Was the vehicle used for one of the following?			
As car used in show-rooms?		x	
As a taxi?		x	
As delivery vehicle?		x	
For racing / motor sports?	x		
As a rental car?		x	
Has the vehicle carried heavy loads over the specifications of the manufacturer? *If yes, the vehicle cannot be selected.* No	x		
Have there been major engine or vehicle repairs? No		x	
Have there been unauthorised major engine or vehicle repairs? *If yes, the vehicle cannot be selected.* No	x		
Has there been a power increase/tuning? *If yes, the vehicle cannot be selected.* No	x		
Was any part of the emissions after-treatment and/or the fuel system replaced? Were original parts used? *If original parts were not used, the vehicle cannot be selected.* No	x	x	
Was any part of the emissions after-treatment system permanently removed? *If yes, the vehicle cannot be selected* No	x		
Were there any unauthorised devices installed (Urea killer, emulator, etc)? *If yes, the vehicle cannot be selected* No	x		

▼M3

Was the vehicle involved in a serious accident? Provide a list of damage and repairs done afterwards No		x	
Has the car been used with a wrong fuel type (i.e. gasoline instead of diesel) in the past? Has the car been used with non-commercially available EU-quality fuel (black market, or blended fuel?) *If yes, the vehicle cannot be selected.* No	x		
Did you use air-fresher, cockpit-spray, brake cleaner or other high hydrocarbon emission source around the vehicle during the last month? *If yes, the vehicle cannot be selected for evaporative testing.* No	x		
Was there a gasoline spill in the inside or outside of the vehicle during the last 3 months? *If yes, the vehicle cannot be selected for evaporative testing.* No	x		
Did anyone smoke in the car during the last 12 months? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Did you apply corrosion protection, stickers, under seal protection, on any other potential sources of volatile compounds to the car? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Was the car repainted? *If yes, the vehicle cannot be selected for evaporative testing* No	x		
Where do you use your vehicle more often?			
40 % motorway		x	
30 % rural		x	
30 % urban		x	
Did you drive the vehicle in a non EU Member State for more than 10 % of driving time? *If yes, the vehicle cannot be selected* No	x	—	
In which country was the vehicle refuelled during the last two times? *If the vehicle was refuelled the last two times outside a state applying the EU Fuel Standards, the vehicle cannot be selected.* Germany	x		
Has a fuel additive, not approved by the manufacturer been used? *If yes then the vehicle cannot be selected.* No	x		
Has the vehicle been maintained and used in accordance with the manufacturer's instructions? *If not, the vehicle cannot be selected.* Yes	x		

▼M3

Full service and repair history including any re-works *If the full documentation cannot be provided, the vehicle cannot be selected.* Dokument attached	x		

Vehicle Examination and Maintenance	X = Exclusion Criteria/ F = Faulty Vehicle	X = checked and reported