



Activator for Fuel Economy

GEONE

10 • 15 Mode Emission Test



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Automobile emission test result report (10・15 mode)

Date _____ Testing Agency Japan automobile Transport Technology association

◎ Test Vehicle Specification

Vehicle name	TOYOTA	Model	TA-NCP34	Power unit type	1NZ	Max.output	81/6000	kW/min ⁻¹	
VIN No.	NCP34-001753	Use	For passengers	Cycle	4	Cylinder	4	Total displacement	1.496 L
	Kyoto 500 ㊦ 1307			Transmission	Automatic	Semi-automatic	Manual	Forward	4-speed
Number of running rods		29197	km	Reduction Ratio	4.237				
Vehicle Weight		1020	kg	Fuel	Alcohol-based fuel				
Gross Vehicle Weight		1295	kg	Driving wheel tire pressure (standard)	200		kPa		
Test Vehicle Weight		1130	kg	Driving wheel tire pressure (actual)	200		kPa		
Equivalent Inertia Weight		1250	kg						

◎ Test equipment

Chassis dynamometer (DC/DY)	Model	RDDY-1210, HORIBA, Ltd.	Blower (Speed-proportional type), Osaka Blower Mfg. Co., Ltd.
Emission Gas Analyzer	(Idling Emission Test)		Model MEXA-9400, HORIBA, Ltd.
	(10・15 Mode emission testing)		Model MEXA-9400, HORIBA, Ltd.
CVS Unit	Model	CVS-9100, HORIBA, Ltd.	(Collection amount) 4.6 m ³ /min

◎ Idling emission test

Indoor temperature	23.8	°C	Cooling water temperature	79	°C
Atmospheric pressure	101.1	kPa	Lubricating oil temperature	100	°C

Gear position	Engine speed min ⁻¹	Intake pressure kPa	Measured value (NDIR)			Concentration correction value	
			CO	HC	CO ₂	CO	HC
N	700	—	0.0 %	6 ppm	14.4 %	—	—
D	800	—	0.0 %	5 ppm	14.6 %	—	—

◎ 10・15-Mode emission test

Dry bulb temperature in the test room	24.4 °C ~ 23.8 °C	Test start time	15:17	End time	15:32
Wet bulb temperature in the test room	18.6 °C ~ 18.0 °C	Coolant temperature	83 °C ~ 80 °C		
Relative temperature in the test room	57 %	Lubricant temperature	96 °C ~ 96 °C		
Atmospheric pressure in the test room	101.1 kPa	Chassis dynamometer load	187 N (20 km/h)		
Fuel consumption	— km/L	Equivalent engine intake pressure	251 N (40 km/h)		
NOx humidity correction factor (KH)	1.001 kPa		358 N (60 km/h)		
		Exhaust pipe opening static pressure difference	kPa (70 km/h)		

◎ Test result

Component	DIL EMI gas concentration		Diluted air concentration		Net concentration		Emission volume
	A		B		A-[B×(1-1/DF)]		
CO (NDIR)	1.88	ppm	0.79	ppm	1.14	ppm	0.016 g/km
HC (FID)	2.99	ppmC	2.13	ppmC	0.99	ppmC	0.006 g/km
NOx (CLD)	1.83	ppm	0.04	ppm	1.79	ppm	0.041 g/km
CO ₂ (NDIR)	0.803	%	0.039	%	0.766	%	171.0 g/km

◎ Remarks Regular No-load rotational speed (N) 700 ± 50 min⁻¹ Ignition timing 10° / 700 BTDC/min⁻¹

Carbon monoxide, etc.	Type	Three-way catalyst	Oxidation catalyst	ECR	Air pump	Reed valve	O ₂ sensor
	Quantity	1	—	—	—	—	1
	Producer Name	Maker correction	—	—	—	—	Maker correction

(Note) The name of the producer should be entered in the following manner

- If the device of carbon monoxide emission control system is made by the automobile manufacturer in the country of origin, enter "Genuine manufacturer".
- If other than ①, enter the name of the manufacturer of the relevant device (an abbreviation is acceptable).
Fuel injection type (----) 1 pc.