



EUROPEAN COMMISSION
JOINT RESEARCH CENTRE

Interim Report for AA DG-GROW/JRC

No. SI2.730104 - Task 5.1

Date of Approval	December 20, 2016
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Abstract	<p>This document is the final version of the vehicle emissions test report for the Skoda Yeti TDi (Euro 5B, Vehicle technical details in the report, VW engine EA189, JRC ID VW034)</p> <p>The report contains the vehicle emissions results on various test cycles, in the laboratory and on the road.</p>
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Vehicle Test Report - Skoda Yeti VW034

December 20, 2016

A. Vehicle details

Table 1: Vehicle specification

Vehicle Make:	SKODA
Vehicle Type:	YETI
Vehicle Class:	M1
Vehicle Identification Number:	VW034
Model Year:	2014
Vehicle Identification Number:	TMBLD75L0F6045247
Emissions Standard:	EURO5B
Transmission Type:	Manual
Number of Gears:	6
Odometer Reading:	23123
Engine Capacity in cm3:	1968
Engine Family:	TDI
Engine Type:	DIESEL
Emissions Control Technologies:	NA
Nominal Fuel Tank Capacity:	NA
Tyre Type:	Pirelli
Tyre Dimensions:	225/50/R17
N° Homologation	e11 * 2007/46 * 0010 * 21



Figure 1: Vehicle tested

B. Tests conducted

Table 2: Laboratory tests conducted

Type	Repeats
Standard NEDC According to ECE R83	1
NEDC - 4WD chassis dynamometer - Hot Vehicle	2
Modified NEDC - 4WD chassis dynamometer - Cold Vehicle	1
Modified NEDC - 4WD chassis dynamometer - Hot Vehicle	1
NEDC - 4WD chassis dynamometer @ 10°C - Cold Vehicle	1
NEDC - 4WD chassis dynamometer @ 10°C - Hot Vehicle	1
Modified NEDC - 4WD chassis dynamometer @ 10°C - Cold Vehicle	1
Modified NEDC - 4WD chassis dynamometer @ 10°C - Hot Vehicle	1
WLTP - 4WD chassis dynamometer - Cold Vehicle	3
WLTP - 4WD chassis dynamometer - Hot Vehicle	2

Generic test protocol: Version 10/08/2016

Application by the JRC: Version 10/08/2016

C. Laboratory Emissions Results

- Average results for the repeated tests

Table 3: Average laboratory emissions

Type	NOx [mg/km]	HC [mg/km]	CO [mg/km]	CO2 [g/km]	PN [E+9/km]
NEDC 4WD Cold	127.7	37.47	162.7	176	126.1
NEDC 4WD Hot	406.2	13.7	13.74	157.5	6.859
NEDC 4WD Mod Cold	312.2	24.85	44.34	162.4	1542
NEDC 4WD Mod Hot	371.2	14.48	12.64	149.2	12.36
NEDC 4WD 10°C Cold	586.6	31.72	152.6	182.7	1674
NEDC 4WD 10°C Hot	517.4	21.84	15.94	163.1	10.46
NEDC 4WD Mod 10°C Cold	619.7	33.5	141.6	181.7	24.37
NEDC 4WD Mod 10°C Hot	528.4	23.31	16.27	163.3	6.735
WLTP 4WD Free Cold	675.5	10.94	42.46	191.2	65.61
WLTP 4WD Free Hot	676.4	5.159	12.61	183	589.4

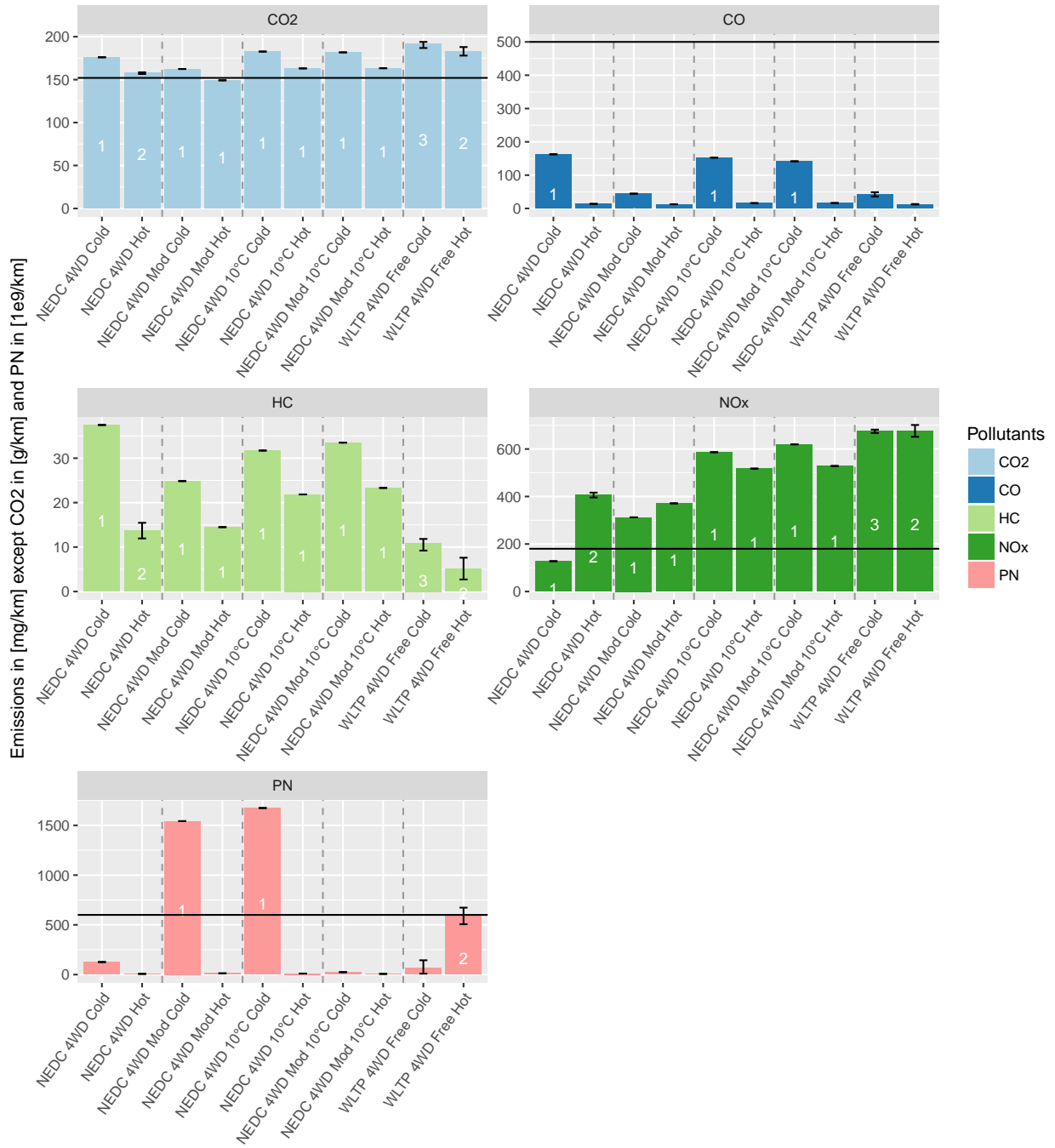


Figure 2: Emissions measured during laboratory tests. Error bars stand for min and max values. Numbers in the bars stand for the number of test. The horizontal line displayed on the CO₂ panel stands for the declared CO₂ emission factor displayed in the type approval certificate of the vehicle (152 g/km). The horizontal lines displayed on the CO, NO_x and PN panels stand for the CO, NO_x and PN standards for Euro 5B (500, 180 mg/km and 6x10¹¹ #/km respectively).

D. PEMS Emissions Results

- The vehicle was not tested on-road

E. Final Laboratory results

Table 4: Average laboratory emissions. CO₂ diff. stands for the relative difference between the CO₂ measured and the declared CO₂ emission.

Type	Repeats	NOx [mg/km]	CO2 [g/km]	CO2 diff. [%]
NEDC 4WD Cold	1	127.7	176	15.8
NEDC 4WD Hot	2	406.2	157.5	3.644
NEDC 4WD Mod Cold	1	312.2	162.4	6.836
NEDC 4WD Mod Hot	1	371.2	149.2	-1.855
NEDC 4WD 10°C Cold	1	586.6	182.7	20.17
NEDC 4WD 10°C Hot	1	517.4	163.1	7.291
NEDC 4WD Mod 10°C Cold	1	619.7	181.7	19.55
NEDC 4WD Mod 10°C Hot	1	528.4	163.3	7.424
WLTP 4WD Free Cold	3	675.5	191.2	25.81
WLTP 4WD Free Hot	2	676.4	183	20.36

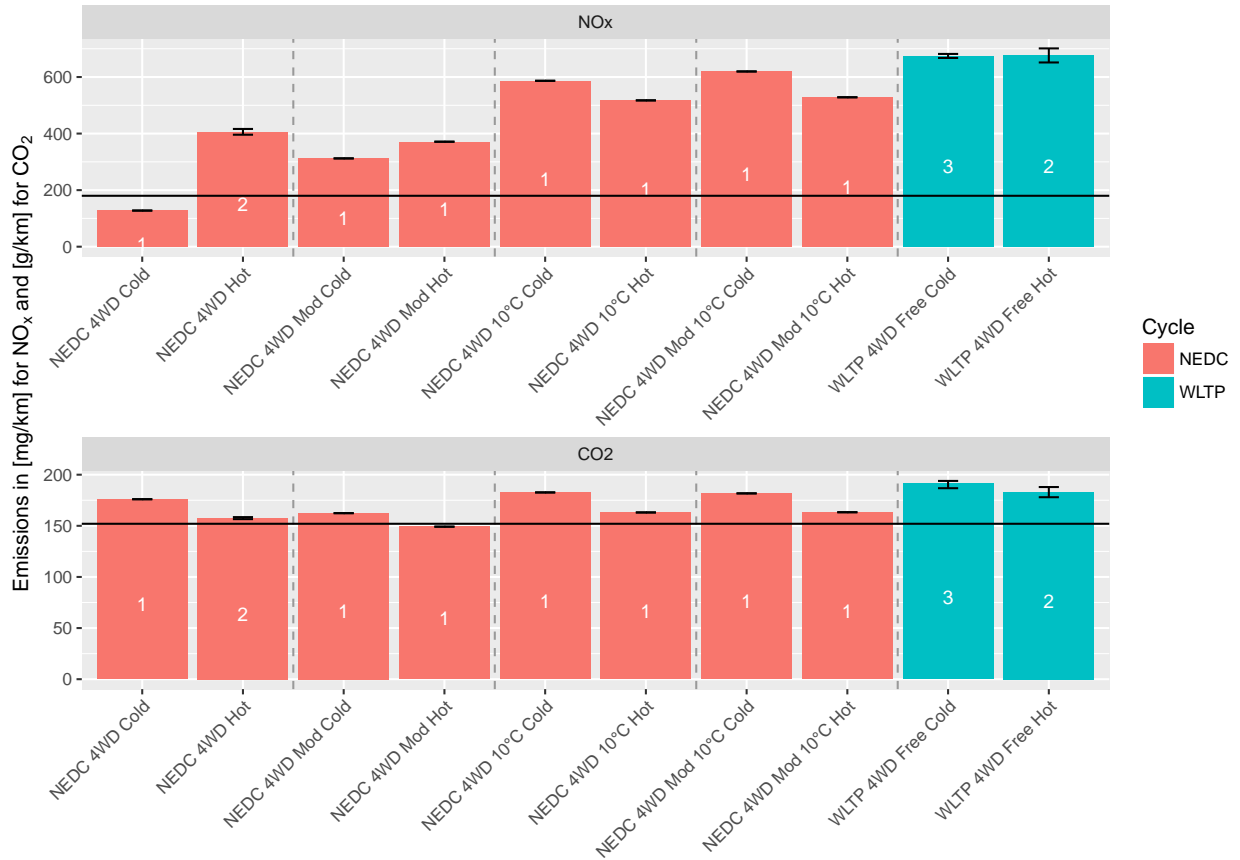


Figure 3: Emissions measured during laboratory tests. Error bars stand for min and max values. Numbers in the bars stand for the number of test. On the top panel, the horizontal line stands for the NO_x standard for Euro 5B (180 mg/km). On the bottom panel, the horizontal line stands for the declared CO₂ emission factor displayed in the type approval certificate of the vehicle (152 g/km).