



TEST: CRANKCASE VENTILATION

Purpose

Function test of crankcase ventilation

Performance

The test of the crankcase ventilation includes an inspection of the air cleaner/throttle body (injection engine)/collector (diesel engine) for contamination with blow-by condensate and/or engine oil

Determine whether oil is lost

- by making a visual inspection
- objectively by weighing

Prior to the test, drain the oil and install a new oil filter, then fill with new oil (Shell 15W40) to specified maximum level

After each of the tests to 1.1 thru 1.5 add 2 liters of oil at increments of 1/4 liter to determine the maximum overfill capacity

Objectives

- blow-by value 20 l/min x engine displacement (1)
- no blue smoke
- no power decrease

Opel Form 66484-1

only English



Use a multi-grade oil to owner's manual for the tests which is known as the worst regarding the degree of foaming. If possible, use the same oil brand and grade for all tests

1 Driving Conditions

1.1 On the circular track

- drive at max. vehicle speed with max. amount of oil
- increase the amount of oil at increments of .25 liter until emissions are noticed (blue smoke, power decrease)
- drive at max. permissible engine speed in the single gears
- test length: 1st gear 2 000 meters
 2nd & 3rd gear 5 000 meters
- increase the amount of oil at increments of .25 liter until emissions are noticed (blue smoke, power decrease)

1.2 On the roundabout

- drive at max. lateral acceleration and engine speed in the single gears, clock- and counterclockwise, with max. amount of oil and then increase the amount of oil at increments of .25 liter until emissions are noticed (blue smoke, power decrease)

1.3 Mountain section

- operate the engine at max. permissible speed with the vehicle parked on the 30 % grade, facing up- and downhill. Use the correct oil level and increase it at increments of .25 liter until the max. level is exceeded by 2 liters to determine the max. over-fill capacity