

FUEL ECONOMIZER ELECTRIC VEHICLE

2,234 km of autonomy with the VW Passat



Ricardo Fraguas

2014 This past year I have had the fortune to meet many unique people of great interest and human quality. Javier Gonzalez Source is one of them. Those who have flown with him know him by the name he likes to use, "Yogi". As the cartoon character, it is courageous, bold and caring. Yogi has been commercial airline pilot until his retirement. I share with him the passion for the generation and the rational use of energy and energy efficiency and, especially, applied to transport. It is something that is carried in the blood and spreads.

When that long outside Aviaco commander, his concern for the pursuit of maximum energy efficiency it is long. When he was at the controls of his plane and felt the urge to optimize the autonomy of the device, per ton of fuel consumed.

Always within established safety parameters, Yogi made an "ideal" flight, as far as energy efficiency is concerned, drawing as much as possible every drop of fuel, of course, without compromising the safety and comfort of passengers.

Flying the McDonnell Douglas MD-80, a plane longer than 45 meters long, nearly 33 meters wide, 35,300 kilos of weight and capacity for 172 passengers. This system, under normal conditions, consuming around 800 liters per 100 km traveled, which represent 3700 liters per hour.

The right conditions were in flight from Frankfurt to Madrid 1500 km distance to Yogi could get the most out of fuel. Without wasting a single liter on track - every minute of waiting on ground with engines running account for about 60 liters of fuel burned! - Yogi could take flight and land by smoother, progressive and efficient approach than ever before or since in his career he could be made to take advantage all possible land momentum to reach the place of parking and landing.

He managed to save more than 1,000 liters in a trip that usually consumed 7000. And that caused a major satisfaction. Not for less. I do not say what they mean 1000 liters of jet fuel to not give you a 'telele ". Well, yes you I'll have to let you know what a driver like Yogi efficient you can make an airline and the environment. At the current market price Two years ago it costs almost reached the doubly 1000 liters are almost ... 7000 euros !.

Now, our good commercial airline pilot, now retired, continues his adventures friend squeezing every joule of energy to his Volkswagen Passat 2.0 TDI 2011.

After what I just told you maybe do not be impressed so much, but this magnificent person, a pioneer of sustainable mobility, has managed to make 2,234 km on a single tank of fuel, with an average of 73km / h, in combined trips City and road. Representing an average consumption: 3.1 liters per 100km!

The mixed use road / official city this car is 4.7 liters per 100km.

2,234 km traveled on the same tank on the trip: Zaragoza-Albarracin-Gandia-Granada-Gandia- Salou-Esplugas-Huesca-Zaragoza. 30 hours and 42 minutes away.

At different stages, with entrances to cities and urban routes, it has achieved partial consumption of up to 2.5 liters per 100 km. (Albarracin-Gandia, 257km away, 75km / h average speed, 3 hours and 28 minutes, 2.5 l / 100km average consumption).

Yogi tells us that the trip made, even in summer, made a moderate use of climate control and the vehicle carrying two people, and

his wife, with luggage for a couple of weeks, where they took advantage to visit friends and family who visited diverse populations, to return to his beloved Zaragoza.

In the test always circulated within the speed limits on every road and stretch without hindering the movement in no time. Moreover, whenever necessary, he sacrificed the average consumption hitting a sprint to facilitate the transit of other vehicles.

The merit of the personal record of consumption is due to efficient pilotage great Yogi, patience and support of his wife, with good features and original performance of the VW Passat TDI 2.0 engine and - in this case at its factory programming 140cv.- and mounting fuel economizer Demac reorganizing engine oil molecules before its entry into the cylinder to optimize combustion.

If you want to make efficient driving as does Yogi, to avoid wasting fuel, save money and ease the burden of our carbon footprint, with all that entails, before passing zero vehicle emissions, just consider the advice that gives us our friend, now test pilot pro energy efficiency.

Perform starts as smooth and progressive as possible. Whenever possible to anticipate braking also make them as soft, long and progressive to allow us and road traffic. When we use engine braking on downhill braking and retention. It is especially effective with TDI engines because they cut the fuel supply. We'll see as the indicator of instantaneous consumption zero mark. For this and also for safety recommendation it is important to keep good distance from the vehicle in front.

Seize the terrain. No we demand maximum power and speed on uphill slopes and take advantage of low speed for not requiring more than the fall provides. - Always within the limits of established safety and speed.

If possible, to stop, not stay stationary vehicle launched more than 30 seconds.

Besides saving money and emissions, with the smooth and efficient driving will get much alleviate driver fatigue and improve passenger comfort.

If we want to go further we can also add to the vehicle systems to optimize engine performance, as the preparations made by Demac Motor at the center of sustainable mobility Prado del Espino in Boadilla del Monte.

Before the advent of the 100% electric zero emissions systems I tested four minibuses. I did not get to the magnificent results of Yogi with his Passat, but I can attest that the SEAT Alhambra seven seats TDI 170cv, with the combination of reprogramming of electronic control system and molecular reorganization fuel, got to spend the 7 liters and peak , 100 km to 5.2 liters, efficient driving scheme.

With the aim of further improving the energy efficiency of your vehicle and its virtuous conduct, Yogi preparing now a new journey to test the combination of reprogramming the ECU and fuel economizer, which our friends Demac Motor ORM call, optimization of engine performance and, for years, so successfully done in its "Engine Power Laboratory" Boadilla del Monte, unique in its kind in Madrid.

We look forward to sharing and celebrating your new results, Yogi.

I can not suppress the urge, in addition to congratulate you once again for your good work and example in the field of sustainable mobility, to encourage you to soon free you definitely also from the dependence on fossil fuels to continue to enjoy the driving vehicles with zero emissions.

In addition to the spectacular performance while offering smooth ride and allow 100% electric cars, in addition to the energy we need to move to 100% electric vehicles, we can generate clean and renewable way, even in our home - for less than a tenth of the cost of gasoline, if we add that the best combustion engines, cars today only fail in about 20% of the energy consumed when a vehicle electric, besides not emit particles and gaseous pollutants, reaches beyond 80% of actual use, we are convinced you'll love of electric mobility.

We love you and we need you, too, that you will help us to take the maximum advantage, watts of electricity of 100% electric vehicles.