

JAGUAR MUSINGS

By Neville Barlow

There are mixed messages coming out of Jaguar in England. On one hand they say Electric, Electric, Electric, and on the other hand are talking about new models such as a replacement for the recently withdrawn XK.

They say they will not forget the sports car even with its ever-increasing SUV line up. Besides the upcoming J Pace (larger version of the F Pace) joining the Electric I Pace and



the now available E Pace, there will be a 2 plus 2 sports coupe and an updated F Type.

Last year Ian Callum suggested the idea of a reborn XK. We are working on something now, but nothing is approved yet.

Callum's team had prepared a concept for the last generation XKs replacement but it was shelved. It would seem the development of a new 2 plus 2 coupe is unlikely to launch until 2021 probably with an Ingenium petrol engine. However, it is thought that Jaguars of the future will have some electrical engine components.

JLR executive Director of Corporate and Strategy, Hanno Kirner, revealed that his brand has the technology to produce electric vehicles that could go from 0 to 100 kph in 1.8 seconds. A great headline to read but once the owner has done this once or twice and lost his eyes in the back of his head, he may never do it again.

JAGUAR LAND ROVER
NEW SIX-CYLINDER
INGENIUM PETROL ENGINE

The newest member of the Ingenium engine family uses advanced technology to reduce weight, deliver more power and provide superior fuel efficiency and lower emissions.

ELECTRIC SUPERCHARGER
 Uses a compressor driven directly by an electric motor to boost boost pressure almost instantly, enhancing the torque curve at all revs for superior responses.

TWIN SCROLL TURBOCHARGER
 Release manifold in split exhaust 'towers' that each feed the turbo from three cylinders. This separates the flow and creates a greater cooling between exhaust pulses feeding into the turbo to prevent pulse interference.

CONTINUOUS VARIABLE VALVE LIFT (CVVL)
 Intake/exhaust valves adjust angle partly (guided by) electro-hydraulically varying the valve timing and lift profile. This allows the engine to breathe with maximum efficiency for every operating condition, optimising performance, fuel economy and reducing CO₂ emissions.

POWER OUTPUT
400PS

TORQUE
550NM

IMPROVED CO₂
12%

Reduction in particulate emissions
75%

VARIABLE CAM TIMING (VCT)
 Variable cam timing on both the intake and exhaust camshafts allows the cam profile to be advanced or retarded for optimum combustion. Combined with CVVL, this advanced technology offers fine-tuned flexibility and control over the combustion cycle in all operating conditions.

MILD HYBRID ELECTRIC VEHICLE (MHEV)
 Mild-hybrid eV system equips the engine with an electric oil at capable of transferring energy in the moment and providing torque assistance to the engine during important start delivery improved CO₂ emissions and fuel economy.

INGENIUM COMMONALITY
 Shared four-cylinder Ingenium engine architecture features low friction coatings to improve efficiency, including variable intake and air pump, roller bearings on the crankshaft and balancer shaft, an oil-free crank and switchable piston cooling jets.

Classed Particulate Filter (CPF)

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Hanno worries that instant performance like this would be dangerous for untrained drivers.

He also thinks the onset of Autonomous driving will spur the production of go-fast machines. While self-driving cars will probably be leased, they will tackle mostly the day to day drudgery of commuting and errands.

Auto makers will unleash speciality human driven vehicles

to fill the enthusiast's world. I do not think for one moment we will see a generation of people with no interest in cars. Driving enthusiasts still exist and we will want to engineer cars for these people. They will grow older and one day want to drive for themselves.

The very latest news from Jaguar says that they are about to build all of their Electric motors at their Wolverhampton plant. It has also unveiled a new internal combustion engine designed by Jaguar Land Rover at this complex.

The expanded Ingenium engine line-up includes a 3.0 litre straight six petrol engine which is superior to the outgoing V6.

Efficiency is improved by a massive 20% and emission reduced by an even bigger 75%. It has an Electric supercharger for extra performance and torque. It will be available next year.

Although both XE and XF models are about to have a facelift, JLR are planning on bringing in all new models by 2023. Suggestions are they will start from scratch and merge XE and XF into a single model, probably an Electric or a plug-in hybrid.

Neville

