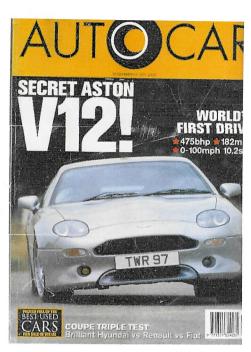
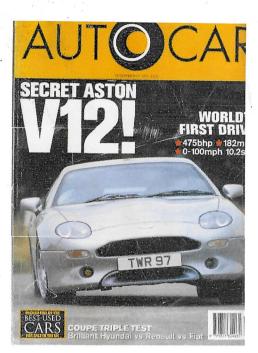
# Let's see what the writers, press and Jeremy Clarkson had to say....





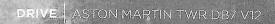


# Let's see what the writers, press and Jeremy Clarkson had to say....









Long before the V12 Vantage, even before the DB7 Vantage, TWR created this wild, V12 Jaguar-engined DB7. We drive it

WORDS JOHN SIMISTER | PHOTOGRAPHY CHARLIE MAGEE





wo years ago, Vantage ran a story on the genesis and development of the Aston Martin DB7. In it, we wrote of how Tom Walkinshaw, the man who made the DB7 happen at a time when Aston Martin needed a new direction and Jaguar had canned Walkinshaw's pitch to make an XJS replacement, assumed that the new 'affordable' Aston would be powered by Jaguar's V12.

Walkinshaw knew the engine intimately, having raced it in various guises, modified it, championed it. But it didn't happen because Ford, then owner of Aston Martin, favoured a supercharged version of Jaguar's still-young AJ6 straight-six. Tom Walkinshaw, however, was never a man to be rebuffed. Partly because he could, and partly because he wanted to show why he was right, he built a Jaguar V12-powered DB7 anyway in the hope that Aston Martin would ask for more of them.

The press loved it, judging by Steve Cropley's story in *Autocar* of September 18, 1996. Cropley's tale tells how Walkinshaw craved the effortlessly blistering pace of a V12 engine, how the DB7 (by then well-established in production) wasn't quite enough, and how he found himself drawn to a Ferrari 456. Who could blame him? The 456 is a fabulous Ferrari, a handsome and characterful machine oddly undervalued today (it can't last).

But... the boss of Aston Martin (Oxford) Ltd driving a Ferrari? That couldn't be right. What happened next is the car you see here.

Both car and engine are one-offs, and nothing to do with the V12-engined DB7 Vantage that arrived three years later. Other than making the point that a DB7 V12 might be a good thing, of course. The Vantage's Ford Duratecderived engine made 420bhp initially, 435bhp later, from its 5.9 litres. This machine is altogether fiercer, even on paper: 6.4 litres, nominally 475bhp (the truth could be well over 500) with 470lb ft of torque, a Jaguar V12 engine like no other. Here, surely, is the proper spirit-guide for today's differently shaped V12 Vantage S.

It takes little time to reach that conclusion. Just the few seconds needed to cannon your way through all the throttle travel and all six gears. Have I ever driven a car with such a broad spread of monstrous torque? Amble along at 1000rpm in fourth, press the accelerator and whoomph! The DB7 lunges forward as though carrying half its mass, engine note building from dirty thrum to the open-mouthed waaaap typical of a free-breathing V12 as it passes through its rev-range's halfway point. The pull goes a little way past the 6000rpm peak-power speed, but there's no point in using it. Not when there are enough muscle fibres here to give vigorous momentum gain even in a sixth gear so long-striding that 70mph representing 12000rpm.

You'd think that would help contain the fuel thirst by doing that is an uphill battle. The fuel gauge functions almost like a reverse accelerometer, with an ever-present whiff of part-burnt hydrocarbons to amplify this not despite the notional presence of a pair of catalyconverters. But it's worth it, just to hear and feel a three response of stunning explosiveness and a build-up g-forces guaranteed to scramble your inner ear's by a mechanisms if you unleash all the forces through the gears. There are no independent performance recorded, but I'd estimate 60mph in usefully under seconds. Theoretical top speed, given the guaranteed power curve, was calculated by TWR at 182,000.

#### Above and right

Tom Walkinshaw's prototype DB7 V12 not only had a unique engine, but unique bodywork too, shaped by lan Callum Interior, too, is clearly DB7 but with a number of twists, such as the instruments being set into wood veneer.

Right and below Jaguar-engined Aston stretches its fegs for the first time since it was recommissioned by Oselli. Below: body was created in clay by DB7 designer lan Callum

### DB7 Take Two

lan Callum was finding life at TWR's design division full of freedom and excitement after the strictures of Ford. The DB7, was the first design project he could truly call his own, so he was ideally placed to shape the up-muscled, Jaguar V12-powered version that existed as a glint in Tom Walkinshaw's eye.

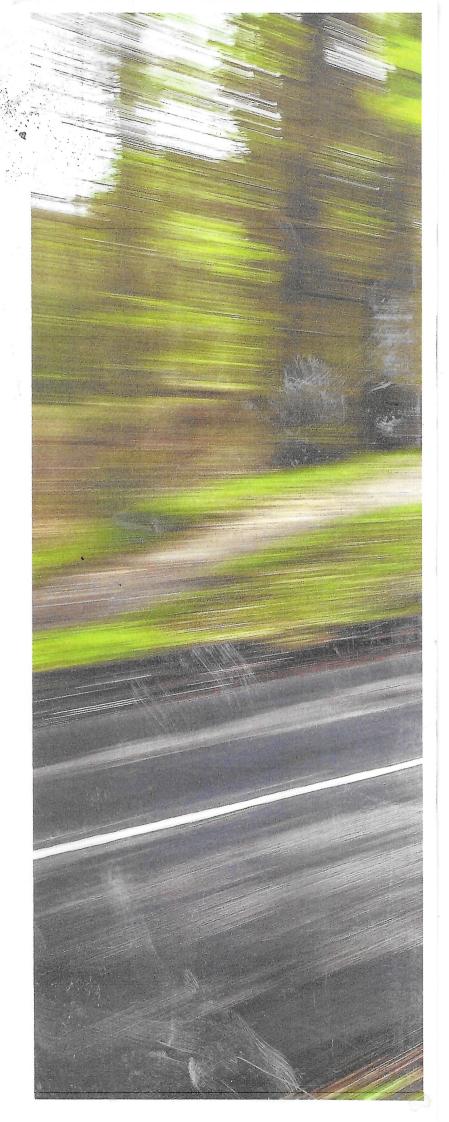
"It was a good bit of fun," lan says now. 'I thought it had around 600bhp and it didn't weigh very much. The first time we test-drove it, we ripped the rear axle right out of the floorpan, so the engineers had to strengthen it a bit. We made this prototype and the plan was to make more, but with changes going on at Aston maybe Tom lost his intent a bit too quickly.

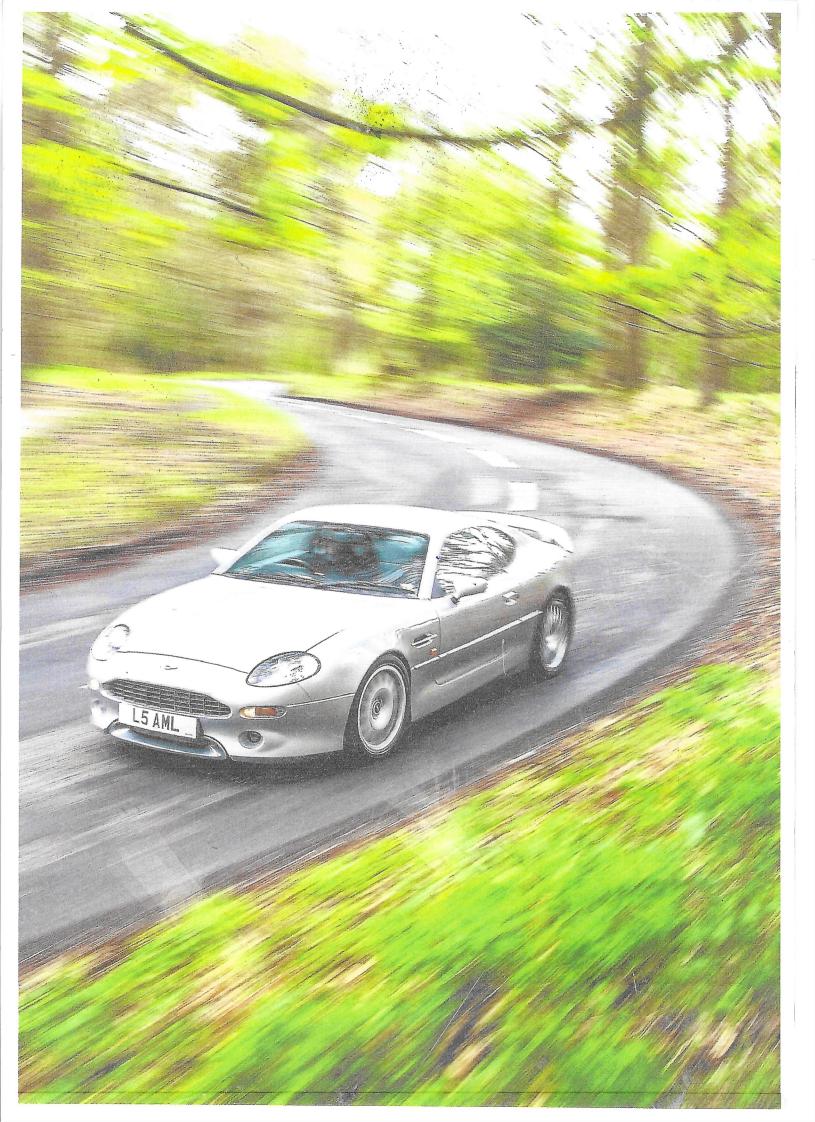
'Remember we did put a V12 in the first prototype DB7, but [Aston chief] Walter Hayes said it was the baby Aston and should have a straight-six, which was taller so we had to drop the subframe. With this car, Tom wanted to sell the idea to Aston Martin but they had other things in mind.' As we later saw, with the DB7 Vantage.

Ian shaped the TWR V12's new lower panels and rear spoiler to generate some downforce, improve cooling, cover the wider rear wheels and add muscularity without making the car look like the recipient of an aftermarket bodykit. The sheet metal was unchanged. 'We just clayed it up [as seen in the photos below] and took a mould, then made a set of glassfibre panels and a second set to be on the safe side.' One set is on the car. Where, we wonder, is the other?











Now, 20 years later, that tally has got no further than 13,700 miles, because the Aston Martin spent much of that time residing in a Dutch collection until it was acquired by Aston specialist Oselli in June 2013. The opportunity came, and given Oselli boss David Eales's insatiable curiosity for all things Aston (he used to run Works Service), he just had to seize it.

As a very early car, L5 AML is an intriguing study in TWR's efforts to get to grips with the DB7's mix of steel and composite panels. To be frank, the panel gaps between bonnet, front wings, front bumper and the doors' front edges are appalling in their width and variability, thanks to the rather mobile integrity of those early composites. They did look better in those *Autocar* shots two decades ago, though.

Inside, too, things were clearly still fluid in the journey from prototype to production car. Unlike a standard DB7, this machine has a wood-veneer setting for its instruments, but it neither aligns with nor matches its neighbour on the main dashboard. And the warning lights glow hopelessly dimly behind their dark-tinted cover strip. If you were the new, and first, owner of this DB7 you would be very unimpressed by these solecisms of quality and integrity. Thing is, it doesn't really matter in 2016: this car is what it is, a unique piece of Aston Martin history, and its superficial imprecisions help tell its story.

And now, quality critique completed, I'm blaring through the Buckinghamshire backroads again, marvelling at this magnificent engine's omnipresent thrust. I've also

noticed that the Cromodoras are wearing a long-obsolete and well-worn model of Yokohama tyre, almost certainly the footwear that's been fitted since 1995. This may be why, on the slightest hint of a damp road, there's much scope for comical wheelspin in third gear and, on occasion, even fourth.

So it's just as well that, despite its potency, this feline hybrid is a big pussycat to handle. It steers accurately, albeit with an exaggerated and anaesthetised lightness more 1990s Jaguar-like than expected of an Aston, and its balance in a bend is impeccable provided you don't twitch your right foot too much. It feels much like a normal DB7 with the added frisson of a firecracker under its wheels. Bumps are smothered smoothly enough, and those ample brakes feel indefatigably strong and progressive.

It all works rather well, given that the car is as early a DB7 as you'll find and the engine is a unique installation, and you even find yourself warming to the cabin's mid-90s obsession with curves and ellipses, almost naïvely dated now and curiously unsettling in the way they deprive your eye of a dimensional reference point.

Would an Aston Martin DB7 V12 have worked as part of an upwardly extended DB7 range? Of course it would – and of course it did, in Ford-friendlier form. But having driven this one, the original and the inspiration. I think the world would have been richer for its replication. That throttle response. I can't get it out of my head.

Thanks to Oselli Ltd, where the TWR DB7 V12 might be for sale.

#### Aston Martin TWR DB7 V12 ENGINE 60-degree V12.

6400cc, aluminium block and heads, dohc per bank, 48 val Zytek engine management POWER 475bhp @ 6000rpn officially, probably more TORQUE 470lb ft @ 4500rp TRANSMISSION Six-speed Borg-Warner T56 manual gearbox, rear-wheel drive SUSPENSION Front: double wishbones, coil springs. telescopic dampers, anti-roll Rear: double-wishbone geometry with driveshaft as upper link, trailing arms, four co-axial coil springs and telescopic dampers STEERING Rack and pinion, power-assisted BRAKES Vented discs all-rou TYRES Yokohama AV1, 245/4 ZR18 front, 275/35 ZR18 rear 0-60MPH sub-5sec (estimate 0-100mph 10.2sec (claimed) TOP SPEED 182mph (claimed

# he engine feels more like that of a Le Mans icer than a continentirinking grand tourer'

rt, the engine feels more like that of a Le Mans ce racer than a continent-shrinking grand tourer. terrible idle, all burbles and dyspepsia and nty, sometimes stopping altogether unless it's just od thrash to clear the passages. As it approaches ap zone, it's the antithesis of the silken V12 and ce a tetchy straight-six with a disintegrating ift damper. But at high revs it's a sonic triumph, sharp and joyful. And quite unlike any other 12 that has taken to the road.

so? Because it has twin overhead camshafts per tuating four valves in each cylinder. Sounds today, but Jaguar never built its road V12 in that cause there was never a market for it. So this ises experience gained from TWR's Jaguar Le acing programme before that switched to irged V6s – although this isn't quite a Le Mans he adjacent story explains.

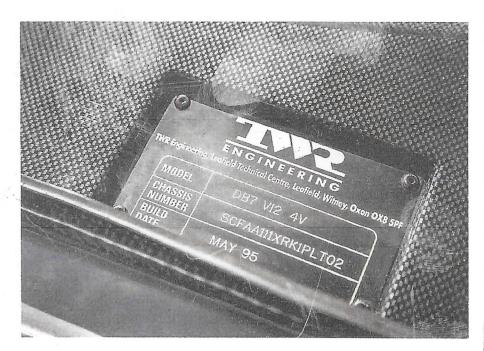
nple outputs are sent not through a regular DB7's earbox but, via an AP twin-plate clutch of meaty able heft, into a Borg-Warner T56 gearbox used lorvettes, the Virage-shape Aston Martin Vantage Dodge Viper. Its shift is easy enough given the f the gearwheels its synchromesh has to rein in, rse is cunningly hidden next to the fifth-gear slot ainable only if the drop-down handbrake is , thus releasing an electric blocking system. It's a to prevent a noisy, unproductive and expensive n fourth to backwards.

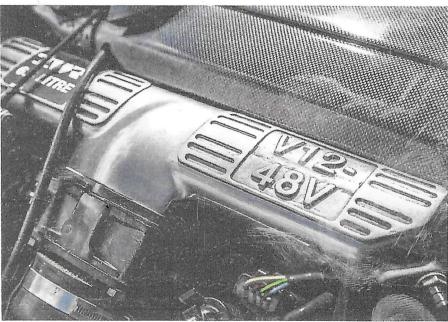
changes from standard DB7 fare are the huge AP trakes, with four-piston calipers on the front and I on revised uprights and hubs, some rear-end ening, and a light recalibration of springs, anti-roll bar and steering effort. This is more to speed potential and Walkinshaw's tastes than a

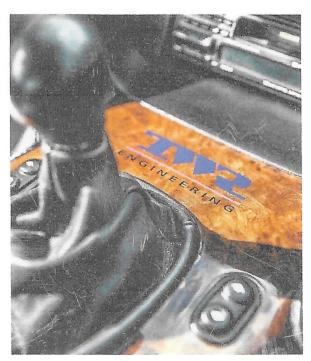
to an engine-induced change in weight ion, because the entire V12 weighs under 5kg in the standard supercharged six.

hen there's the way it looks. Ian Callum designed nal DB7, and he also designed this evolutionary ning with its flared-out lower body, its low front o with added gulpability, and its flamboyant rear The Cromodora wheels are unique, too, specially d to this car's required offsets and wider than a l DB7's.

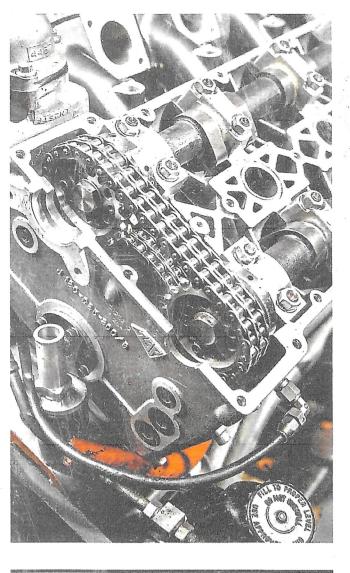
look at the number plate. L5 AML is the number wore when first registered in July 1994 as the pilot-production car, as revealed by the PLT02 that VIN, but some time after its TWR reinvention in 5 it was re-registered as TWR 97. The TWR Group mal ownership in September 1995, and by the time car's test a year later it had covered just 10,000 which around 8000 were driven by Tom himself.







From the top
'PLTO2' on the end of the V!N
reveals this car started life as th
second DB7 pilot-production c
Four valves per cylinder were
usually unique to Jaguar's racir
V12s, so this is one special engi
Borg-Warner six-speed gearbo
was the same type later seen in
the Virage-shaped Vantage



## welve into a Seven will go

ut only just. 'One of the ead gaskets had gone when e got it,' says Oselli's Paul ales, son of boss David. Vhen we saw what a fiddle would be to get the chaust manifolds off, we ckoned it would be easier pull out the entire engine.' Which is what they did. In placing the gasket, they ould wonder at the cylinder ead (and its twin on the oposite bank) and see that, espite sharing a four-valveser-cylinder, twin-cam esign, it's a different casting om those of TWR's V12 race ngines. The ports and valve zes are those needed for a actable road engine, as are ie camshaft profiles. All are nique to this car. Spares on't exist; if needed, they ould have to be specially ast, forged, machined, hatever was required.

With cam covers and inlet lenums removed, castings f mind-boggling complexity re revealed. So are twin

thermostats and a pair of indestructible-looking, duplex-chain camshaft drives. Below is an overbored version of Jaguar's aluminium cylinder block and a steel crankshaft machined for a longer stroke: above it, once the engine is back together, is an injection and ignition system controlled by Zytek engine management as used in the XJR-series race cars. With, to a degree, some refinements for cold starts and low-speed manners.

TWR's Jaguar-based V12s weren't the first with four camshafts, though. That honour goes to the engine of the never-raced XJ13 racing car, which pre-dated the twocam production engines, though the XJ13 had but two valves per cylinder. As for the TWR 48-valve V12 as used in the Jaguar XJR-8 and XJR-9 Group C racers, it typically made a rousing 720bhp from its seven litres. Now that really is fierce.

