

COMPACT

Baby BMW on test



Last of its kind





2.8 H3 on the road





A Breed Apart



What do Concorde, cross-Channel hovercraft and A4 Pacifics have in common? They are the best, and last, of their kind. How does the BMW 850CSi match up?

ust as we shall never again see the like of the three other means of transport shown on this and the next seven pages, so there will probably never be another BMW quite like the fabulous 850CSi.

As we reported in the September

As we reported in the September issue (Newsline, page 8), BMW has made firm commitments, and not just vague forecasts, about its energy policy into the next century. These won't necessarily preclude the use of the V12 engine in a large luxury saloon, but they almost certainly rule it out for a sporting and inherently much thirstier two-plus-two.

The 8-series' days may be numbered, then, but that by no means detracts from its technological excellence, or the considerable courage that even a manufacturer of BMW's standing must have required to build such an expensive and essentially impractical car with so much power and performance.

That's why we chose loosely to compare it with three such apparently diverse means of transport as a high-speed steam locomotive, an example of what is still the fastestever cross-Channel ferry, and a supersonic aircraft. Each was a unique, mould-breaking, high-performance machine in its own right and time, and each, for a variety of reasons (but mostly prohibitively high running costs), was ultimately doomed



A4 Pacific Sir Nigel Gresley

Sir Nigel Gresley's A4 Pacific engines, with their 4-6-2 wheel arrangement, are true masterpieces of steam locomotive design. Introduced by the LNER (London and North Eastern Railway) in September 1935, they evolved from Gresley's earlier A3 class, of which No 4472 Flying Scotsman is the famous and sole survivor. In the interests of greater power, the A4 featured increased boiler pressure, larger-diameter piston valves and the internal streamlining of steam ports and passages (sound familiar?). Like the earlier 2-8-2 P2, the A4 was instantly recognisable by its characteristic, and highly effective frontal streamlining.

No 2509 Silver Link achieved 112mph on its first public outing, and in July 1938 No 4468 Mallard set a world record for steam traction (which still stands) of 126mph. The class remained in active service until 1962, regularly hauling trains of more than 400 tons between Kings Cross and Edinburgh in 6fi hours, at an average speed of just over 60mph.

Today Mallard is a largely static exhibit at the National Railway Museum in York; No 4498 Sir Nigel Gresley is in the hands of the A4 Locomotive Society Ltd and, fittingly in view of the illustrious name it bears, very much alive and well.

PHOTOS: DAVE KENNARD



Sir Nigel Gresley (above) has

rather fewer -

and larger -

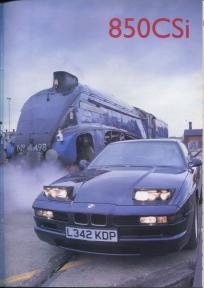
controls and instruments than

thoroughly

logical, though

the 850CSi (right).

Both 'lascias' are





BMW 850CSi

£77,500

C

Two-door pillarless coupé Body type: Construction: All-steel unitary Light-alloy V12 with single overhead Engine:

camshaft per cylinder bank actuating two valves per cylinder. Seven-bearing crankshaft with 12 counterweights. Sequential electronic fuel injection controlled by Digital Motor Electronics engine management system and selectable sport or economy modes

Capacity: 5576cc Bore and stroke: 86 x 80mm Compression ratio: 9.8:1

Maximum power: 380bhp at 5300rpm Maximum torque: 406lb ft at 4000rpm Output per litre: 68.1bhp

Transmission:

Six-speed all-synchromesh manual gearbox with triple-cone synchromesh

differential with 25 per cent locking Gear ratios: 1st 4.25; 2nd 2.53; 3rd 1.68; 4th 1.24; 5th 1.00; 6th 0.83; reverse 3.89 Final-drive ratio: Front: double-pivot MacPherson struts

on second gear. Limited-slip

Suspension:

Brakes:

with anti-roll bar. Rear: multi-link independent. Gas-pressure dampers all round. ASC + T fitted as standard

324mm diameter servo-assisted discs all round, ventilated at front. ABS fitted

as standard Wheels:

8 x 17 and 9 x 17 light alloy front/rear 235/45R17 and 265/40R17 front/rear Tyres:

Dimensions Length: 4780mm 1855mm Width: 1900kg Dry weight:

The Princess Anne's four gas turbines (above) can push the craft along at up to 65 knots (75mph) on a calm sea. Their total output is around 15,200 horsepower



SDN4 The Drincess Anno

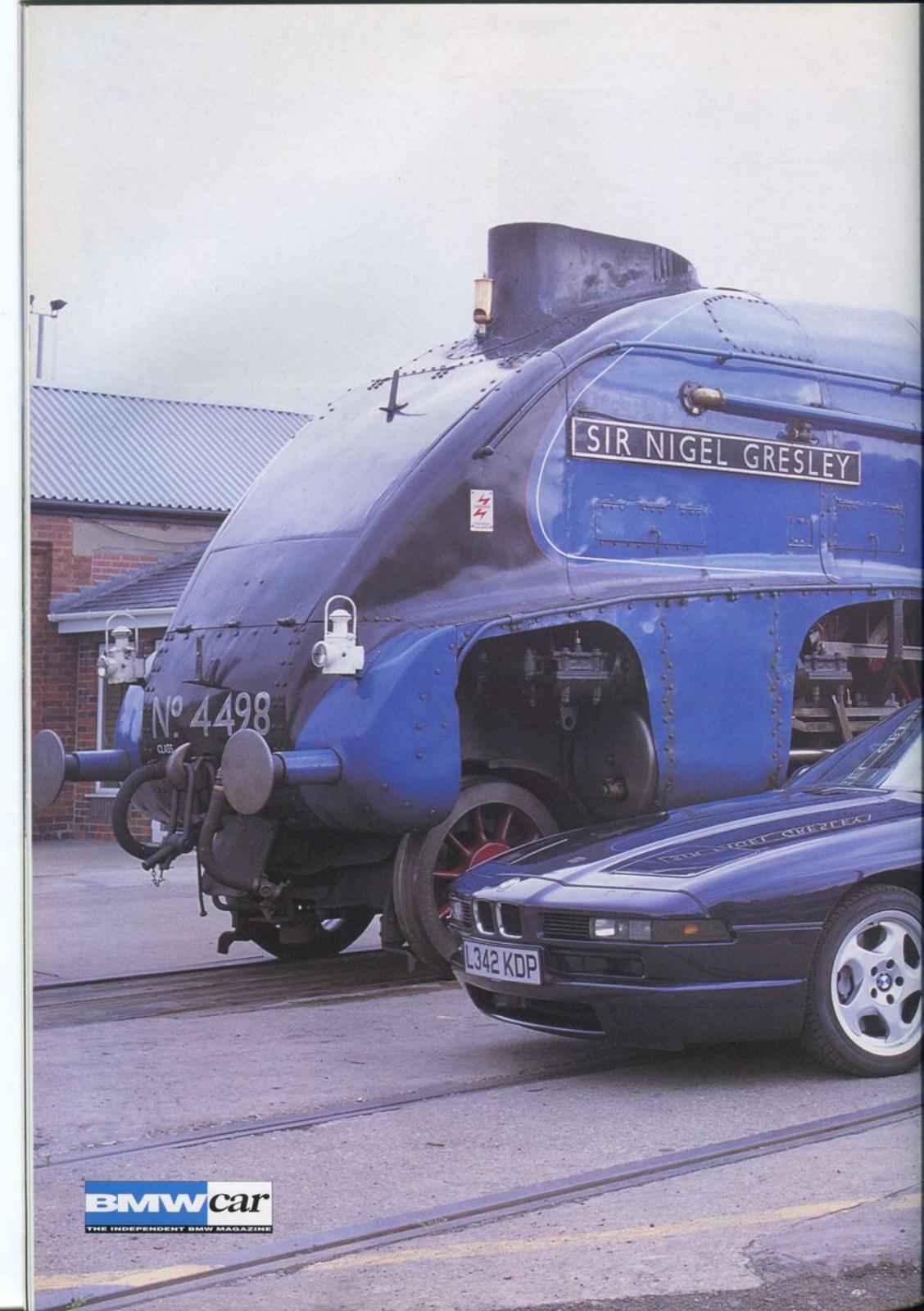
ease - was invested by Sir Christopher Cockerell in the 1950s. The Smo ders Rao SSW1 'Rew' from Calais to Depart in just under two hours. larger bovercraft have plied the Channel since then, but only two-

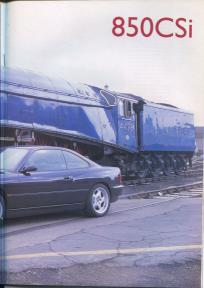
Earlier this year the 25-year-old Swift (builder of the title World's Festest Ferry for a 24-minute Channel crossing in 1987, but new beyond repair) was towed to the new Hovercraft Museum in Gosport, Hants. .

to suffer commercial failure.

The CST's 2005kly







adults, or that the boot is little bigger than a shoe box.

Neither, like some high-performers, is the 850CSi some wild, uncontrollable animal of a car waiting to bite the unwary. It's certainly big, and such is its awesome accelerative capacity that you could certainly have a substantial accident in one if you tried hard enough - just as you could in a 318, come to that - but you would have to be driving so badly, and so irresponsibly, that you would deserve to be locked up.

The car has any number of innovative and largely unseen features which ensure that the transmission of its considerable power and torque to the road is nearly always a totally drama-free affair. There's ABS, Active Rear Axle Kinematics, Automatic Stability Control + Traction and a limited-slip differential - and, of course, a highly sophisticated speed-limiting device in the form of the driver's right foot.

For me by far the most interesting aspect of the CSi is its six-speed manual gearbox. This is an increasingly common feature of cars of all types, but at the time of the 850's launch only Vauxhall's high-performance Lotus Carlton offered this

At first it's hard to imagine how,

many forward gears.

1342 KDP

SEC CEI



The 850CSi looks stunning from most angles (below) but bland and anonymous from others. It's hard to fault the lines of Gresley's streamlined masterpiece from any angle

> the gear-lever gate. The shift is smooth and precise, if heavy and rather slow by the standards of most modern cars, and occasionally reluctance to slip into second. This last characteristic, says BMW, is probably a result of the special triple-cone synchromesh on this ratio.

> Just as intriguing as the gearbox is the fly-by-wire throttle-actuating mechanism. Instead of a nasty old

fashioned rod or cable linked to the loud pedal, each of the two throttle butterflies is controlled by a small

And by means of a discreet rocker switch on the centre console you can select either sport or comfort modes of the so-called Electronic Power Control (EPC) and instantly alter the engine's entire character. In 'K', throttle response is quick. In 'S' it's truly hair-trigger stuff.

Handling and roadholding, given the car's size, are remarkably good although you'll be disappointed if you expect it to have the liveliness of a lighter and inherently more agile car. We drove the CSi in the middle of this year's dry summer, and so we didn't get the chance to put the traction control or limited-





suggest it ought to be.

brody similar carabilities.

Concorde 101

Concerds was conceived in 1956 by the British Supercasic Transactor March 1963 at Toxiouse; the British prototype teek to the air on 5 April logar and beavier then any of the protetypes, were constructed and largely to commercial protectionism in the USA it wasn't until 1575 that Concordo began a regular - if expensive - service to New York 1577, was to the Imperial War Museum at Qualent, Condividuoshire. where it is now on display courtesy of Danford Aviation Society. @

complex as a