

TVR

450 SE, SEAC

1989 to 1994

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

MENU

HELP

Engine and cooling system

450 SE, SEAC

1989 to 1994

Type		- / TVR 239kW
Capacity (cm ³) / number of cylinders		4394 / 8
Compression ratio / pressure	bar	9.75 / ≥12.4
Oil pressure	bar	[2.1 to 2.8]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
- exhaust	mm	0: Hyd.
Firing order		1-8-4-3-6-5-7-2
No 1 cylinder position		FL
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.0

Fuel system

450 SE, SEAC

1989 to 1994

Idle speed - manual [auto]	rpm	950±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	3.0 to 4.0
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Lucas
Type / ref		L electronic
Main jet / needle		—
Injection pressure	bar	—
Pump pressure	bar	2.5 to 2.9
Octane rating	RON	97[R]

Ignition system

450 SE, SEAC

1989 to 1994

Type		Electronic
Ignition coil		Lucas 35C5
Primary resistance	ohms	0.71 to 0.81
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Lucas
Points gap (air gap)	mm	[≥0.15]
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	6 BTDC @ 600
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	30 BTDC @ 5500
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	0 @ 800
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	28 to 30 @ 5000
Vacuum range check	mbar	67 to 367
Maximum vacuum advance	° Crankshaft	7 to 10
Spark plugs		NGK/Champion
Type		BP7ES / N7YC
Electrode gap	mm	0.60

Electrical system

450 SE, SEAC

1989 to 1994

Battery	V / CC / RC	12 / 60Ah
Alternator voltage / full load current / engine rpm		13.6 to 14.4 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	505 to 550 / _

Running gear

450 SE, SEAC

1989 to 1994

Brakes -		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	3.0

Tyres		
Saloon	Size	225/50x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	1.5 / 1.7
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+3.2±1.5 ¹
Camber		0±0.5°
Castor		+3.5°±0.5°
King pin inclination		+6°

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+3.0±1.5
Camber		-1°±0.25°

Torque wrench settings

450 SE, SEAC

1989 to 1994

Cylinder head - stage 1	Nm	Nos 1 to 10: 102
- stage 2	Nm	Nos 11 to 14: 47
- stage 3	Nm	—
- stage 4	Nm	—
Big-end bearings	Nm	47
Main bearings	Nm	75
Clutch cover	Nm	27
Flywheel [driveplate]	Nm	81
Front hubs	Nm	WSM
Rear hubs	Nm	271
Wheel nuts / bolts	Nm	95
Spark plugs	Nm	15

Capacities

450 SE, SEAC

1989 to 1994

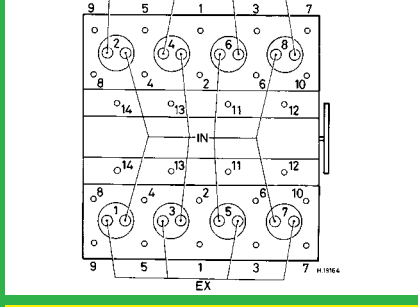
Engine oil & filter	litres	5.5
Gearbox - 4-speed [5-speed]	litres	1.9
Automatic transmission - refill	litres	—
Final drive	litres	1.5
Cooling system	litres	11.0
Fuel tank	litres	61

Notes and Illustrations

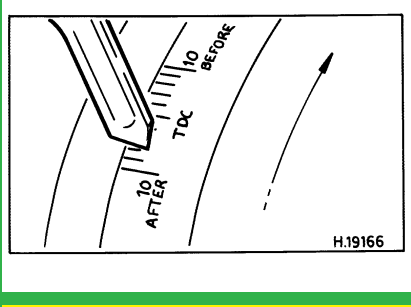
¹SEAC: +3.2±3.0

1: Idle speed

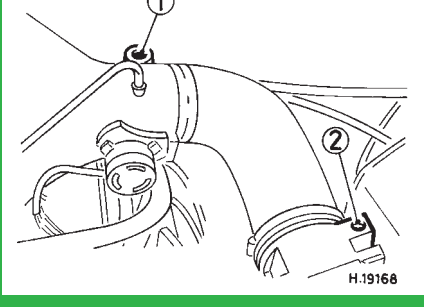
2: CO / Mixture



4394 cm³



4394 cm³



L electronic