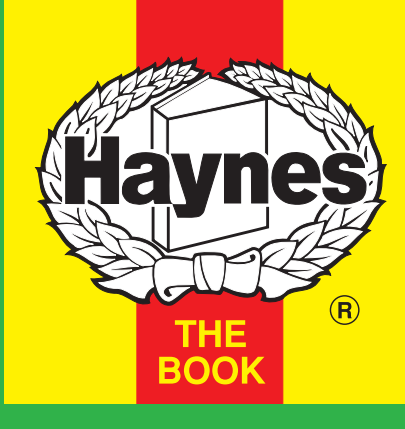




Automotive Technical

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

Transporter/Caravelle 2.0/CAT

1991 to 1997

Type		AAC. 64kW, CAT: 62kW
Capacity (cm³) / number of cylinders		1968 / 4
Compression ratio / pressure	bar	8.5 / ≥7.0
Oil pressure	bar	[2.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	87
Radiator cap pressure	bar	1.3 to 1.5

Fuel system

Transporter/Caravelle 2.0/CAT

1991 to 1997

Idle speed - manual [auto]	rpm	775 to 825 N/A
Fast idle speed - manual [auto]	rpm	2500 to 2800
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 [≤0.3] Ex
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Volkswagen
Type / ref		Digifant
Main jet / needle		—
Injection pressure	bar	2.5
Pump pressure	bar	3.0
Octane rating	RON	91[E 91 RON] ¹

Ignition system

Transporter/Caravelle 2.0/CAT

1991 to 1997

Type		Digifant
Ignition coil		N152
Primary resistance	ohms	0.5 to 0.7
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		—
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static V = Vacuum NV = No Vacuum	° Crankshaft @ rpm	6±1 BTDC @ 2000 to 2500 N/A
Total ignition advance	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK/Champion
Type		BUR5ET / N9BMC
Electrode gap	mm	0.70 to 0.90 / ≤0.60

Electrical system

Transporter/Caravelle 2.0/CAT

1991 to 1997

Battery	V / CC / RC	12 / 220 / 44Ah
Alternator voltage / full load current / engine rpm		— / 65 / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

Transporter/Caravelle 2.0/CAT

1991 to 1997

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	1.0

Tyres		
Saloon	Size	—
Estate / Van	Size	185x14: 195/70x15: 205/65x15
Pressure - front / rear - Saloon	bar	—
- Estate / Van	bar	3.3 / 3.8 ²

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	Group 1 & 2: [+20'±20'] ³
Camber		Group 1 & 2: +15'±20' ⁴
Castor		+1°40'±30'. Group 4: 1°50'±30'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	Group 1 & 3: [+20'±20'] ⁵
Camber		Group 1 & 3: -30'±30' ⁶

Torque wrench settings

Transporter/Caravelle 2.0/CAT

1991 to 1997

Cylinder head - stage 1	Nm	40
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	65 ⁷
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	60 + 90° N
Front hubs	Nm	150 + 90° N
Rear hubs	Nm	200
Wheel nuts / bolts	Nm	160
Spark plugs	Nm	30

Capacities

Transporter/Caravelle 2.0/CAT

1991 to 1997

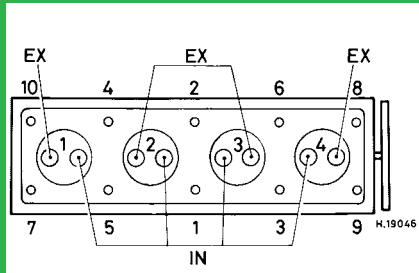
Engine oil & filter	litres	5.0
Gearbox - 4-speed [5-speed]	litres	2.5
Automatic transmission - refill	litres	3.0
Final drive	litres	WT. AT: 1.15
Cooling system	litres	9.0
Fuel tank	litres	80

Notes and Illustrations

- ¹CAT: [U]
- ²195/70x15, 205/65x15: 2.6 / 3.4
- ³Group 3: [+10'±20']. Group 4: [0±20']
- ⁴Group 3: 0±20'. Group 4: -10'±20'
- ⁵Group 2: +6'±20'. Group 4: +24'±20'
- ⁶Group 2: 0±30'. Group 4: -40'±30'
- ⁷Replace with fully threaded shank bolts: 65 + 90°

1: Idle speed

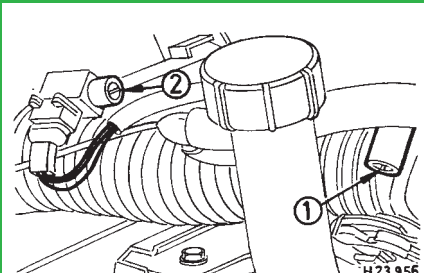
2: CO / Mixture



1968 cm³



1968 cm³



Digifant, AAC