

# LEYLAND DAF (LDV)

300, 400 V8

1988 to 1996

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
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## Automotive Technical DATA BOOK

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### Engine and cooling system 300, 400 V8 1988 to 1996

Type	V8 106kW
Capacity (cm <sup>3</sup> ) / number of cylinders	3528 / 8
Compression ratio / pressure	bar 8.1 / _
Oil pressure	bar [2.1 to 2.8]
Oil temperature	°C 80
Valve clearance - inlet	mm 0: Hyd.
Valve clearance - exhaust	mm 0: Hyd.
Firing order	1-8-4-3-6-5-7-2
No 1 cylinder position	FL
Thermostat opening temperature	°C 82
Radiator cap pressure	bar 1.03

### Fuel system 300, 400 V8 1988 to 1996

Idle speed - manual [auto]	rpm	700 to 800
Fast idle speed - manual [auto]	rpm	1050 to 1150
CO @ idle speed [3000 rpm] - see page VI	%	0.5 to 2.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
O <sub>2</sub> @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	SU	
Type / ref	2x HIF44	
Main jet / needle	_ / BGC	
Injection pressure	bar	_
Pump pressure	bar	0.34 to 0.40
Octane rating	RON	91[E 91 RON]

### Ignition system 300, 400 V8 1988 to 1996

Type	Electronic	
Ignition coil	Lucas 32C5 / AC Delco	
Primary resistance	ohms 1.2 to 1.4	
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	7.0
Distributor	Lucas	
Points gap (air gap)	mm	[0.20 to 0.35]
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	6±1 BTDC @ 600
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	7 to 11 @ 900
	° Crankshaft @ rpm	16 to 20 @ 3600
	° Crankshaft @ rpm	21 to 25 @ 4600
Vacuum range check	mbar	273 to 680
Maximum vacuum advance	° Crankshaft	5 to 7
Spark plugs	Champion	
Type	RN11YCC	
Electrode gap	mm	0.70 to 0.90

### Electrical system 300, 400 V8 1988 to 1996

Battery	V / CC / RC	12 / 40, 63, 68Ah
Alternator voltage / full load current / engine rpm		13.5 to 14.4 / 65, 85 / 3000
Starter motor current / voltage - cranking	A / V	425 / 8.0
- locked	A / V	650 / 4.0

### Running gear 300, 400 V8 1988 to 1996

<b>Brakes -</b>		
Front (min. friction material thickness)	mm	3.0
Rear (min. friction material thickness)	mm	1.5

<b>Tyres</b>		
Saloon	Size	_
Estate / Van	Size	185x14
Pressure - front / rear - Saloon	bar	_
- Estate / Van	bar	Refer to vehicle

### Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	0 to +1.6
Camber		+1°30'
Castor		+5° (VIN 816953 ▶: +2°)
King pin inclination		+9°30'

### Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	_
Camber		_

### Torque wrench settings 300, 400 V8 1988 to 1996

Cylinder head - stage 1	Nm	88 to 95 EXCEPT...
- stage 2	Nm	...Outer: 54 to 61
Cylinder head - stage 3	Nm	_
- stage 4	Nm	_
Big-end bearings	Nm	47 to 54
Main bearings	Nm	<sup>1</sup>
Clutch cover	Nm	24 to 30
Flywheel [driveplate]	Nm	74 to 81
Front hubs	Nm	WSM
Rear hubs	Nm	136 to 163
Wheel nuts / bolts	Nm	230 to 280
Spark plugs	Nm	14 to 16

### Capacities 300, 400 V8 1988 to 1996

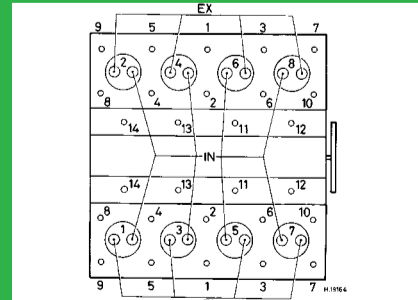
Engine oil & filter	litres	5.6
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	_
Final drive	litres	1.7. Twin wheel: 2.4
Cooling system	litres	9.7
Fuel tank	litres	70. Ch.Cab: 64 <sup>2</sup>

### Notes and Illustrations

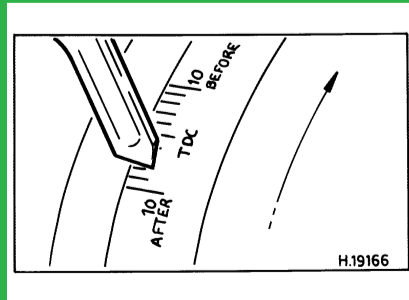
<sup>1</sup>No. 1 to 4: 68 to 75. Others: 88 to 95

<sup>2</sup>Optional: 102

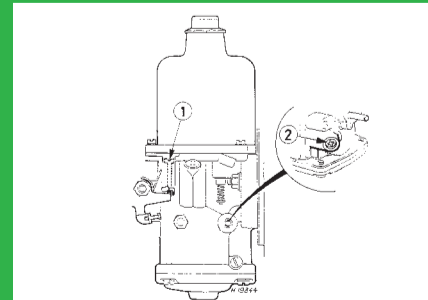
1: Idle speed 2: CO / Mixture



3528 cm<sup>3</sup>



3528 cm<sup>3</sup>



SU HIF 44