

# DLG-Data Sheet Tractors 2003

## Renault Atlas 936 RZ

DLG-Test No. 2/1996 (Date: 09/2002)

### Engine

Deutz BF 6M 1013FC, rated engine power 184 kW at 2200 min<sup>-1</sup>, turbocharger, 6 cylinder, capacity 7146 cm<sup>3</sup>, bore 108 mm, stroke 130 mm, water cooled, viscous fan, average pressure 14,0 daN/cm<sup>2</sup>, fuel tank capacity 180 l

### Measurement at main power take off

	Rated engine speed 2200 min <sup>-1</sup>	Engine speed at max power 1800 min <sup>-1</sup>
Power	153,5 kW	165,8 kW
Fuel consumption	49,0 l/h	46,2 l/h
Specific fuel cons.	271 g/kWh	237 g/kWh



### Average fuel consumption of

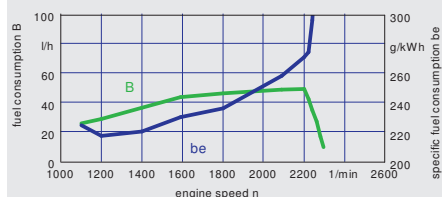
the 6 measurement points from the governor curve 29,8 l/h, 315 g/kWh

### Equivalent flywheel torque

Max. torque 974 Nm at 1590 min<sup>-1</sup>, torque increase 46 % at a speed drop of 28 %

### Torque at engine speed 1000 min<sup>-1</sup>

- % rated to the torque at rated engine speed



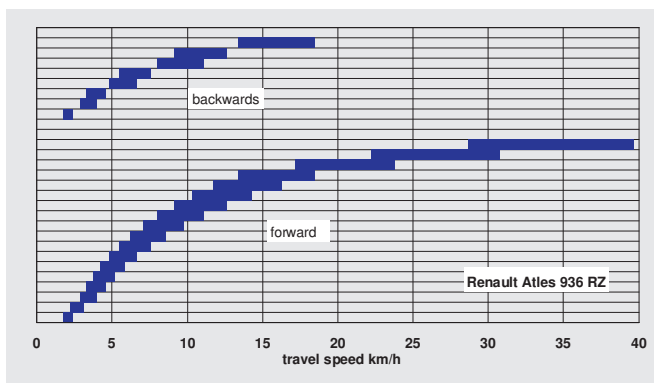
### Power take off

Wet multi-disc clutch, electro-hydraulically operated by switch; 1 rear p.t.o., form 1 or 2, double shifting; changeable

Standard speed	540	540 E	1000	1000E
Engine speed	1992 min <sup>-1</sup>	-	2091 min <sup>-1</sup>	-

### Gearbox

Wet multi-disc clutch, 18 forward, 8 reverse; full power shift; 1 shift lever, 2 switches



Speed scheme arranged by groups, for every gear in the speed range from the engine speed at max. torque to the rated engine speed.

### Drawbar power

Max. power 161,3 kW at 10,3 km/h and engine speed 1800 min<sup>-1</sup>, at 246 g/kWh; at rated engine speed 123,9 kW at 12,8 km/h, at 280 g/kWh



### Chassis

All wheel drive, central driving shaft, wet multi-disc clutch, electro-hydraulically operated; front self-engaging multi-plate differential lock, electro-hydraulically operated, rear dog clutch differential lock, mechanically-hydraulically operated

Front	Tyre 14.9-24
Rear	Tyre 520/70 R 38

### Brakes

Oil-immersed disc brake at the rear axle; automatic engagement of 4WD

### Cab

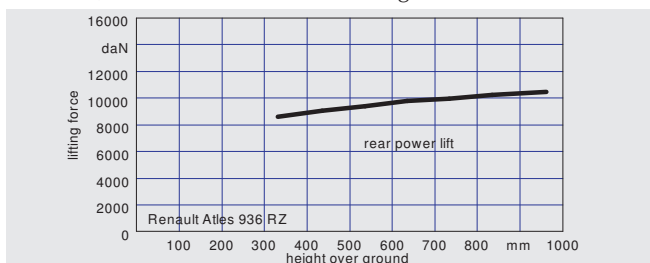
Renault K04Z5, OECD-No. 4/0 648/1, 2 doors, rear and side windows tiltable, cooling water heat exchanger, air conditioner

### Sound levels at drivers ear

	Unloaded	Under load
At 7.5km/h, nominal gear selected, all openings closed	-	-
Open	-	-
In loudest gear, all openings closed	-	-

### Hydraulic system

Closed centre type; pressure and flow compensated system, power lift category 2 or 3, 2 external cylinders with 105 mm diameter, electronic lower link sensing



### Oil tapping port

Max flow rate 118,2 l/min; max. hydraulic power 27,1 kW at 151 bar and 107,5 l/min; max. pressure 199 bar; oil together with gear box with 60 l capacity, available to external cylinders 40 l

### Masses/Axle load

Mass	Test tractor	Permissible total mass
Front	4165 kg	4600 kg
Rear	5555 kg	7750 kg
Total	9720 kg	12350 kg

Tractor mass to engine power ratio 53 kg/kW

### Dimensions

Width 2550 mm, length 6641 mm, height at top of exhaust silencer pipe 3245 mm, at cab 3180 mm, wheel base 3035 mm, distance from p.t.o. shaft end to trailer hitch 175 mm, distance from p.t.o. shaft end to lower link couplers 594 mm



Test centre  
CEMAGREF, France