

TATA MOTORS
Connecting Aspirations



TATA LP0 1318 TC



Technical Specification

TATA LPO 1318 TC BUS WITH EURO-II ENGINE

ENGINE

Model	: CUMMINS B180 20
Type	: Water cooled ,Turbo charged inter-cooled Diesel Engine
No. Of Cylinders	: 6 inline
Bore / Stroke	: 102 mm x 120 mm
Capacity	: 5883 cc
Max.Engine Output (EEC-88/195)	: 134 kw at 2250 rpm
Max.Torque	: 654 Nm @ 1500 RPM
Compression Ratio	: 17.6:1
Firing Order	: 1-5-3-6-2-4
Air Filter	: Dry type remote mounted
Oil Filter	: Full flow Spin-on paper type
Fuel Filter	: Two stage Pre & fine filtration with water separator
Fuel Injection Pump Governor	: Mico "A" type distribution pump
Turbo Charger	: All speed Mechanical
Capacity Of Cooling System	: 27 litres (Total) ~ 27 litres (total)
Coolant	: Water & Ethylene glycol, ratio 1:1 premixed
Crankcase Oil Capacity	: Max. 14.3 litres Min. 12.3 litres
Weight Of Engine	: 413 kg (Dry):With flywheel and alternator without starter & air compressor
Radiator Frontal Area	: 4454 sq.cm

CLUTCH

Type	: Single plate dry friction type
Outside diameter of clutch lining	: 352 mm Spicer pull type

GEAR BOX

Model	: G-600 with O.D
No. of gears	: 5 Forward 1 Reverse
Gear Ratios	: 1st- 6.58 2nd- 3.79 3rd- 2.29 4th- 1.49 5th- 1.00 6th- 0.77 Rev- 5.66

REAR AXLE

Model	: TATA RA - 109 RR
	: Single reduction hypoid gears, fully floating axle shafts
Ratio	: 5.857 : 1

FRONT AXLE

Heavy duty Forged I beam, Reverse Elliot type

STEERING

Integral hydraulic power assisted steering

BRAKES

Service Brake	: Fully duplicated,full air S-CAM brake system
Brake Drum Diameter	: 410 mm
Lining Area	: Front - 2180 sq.cm Rear - 2470 sq cm Total - 4650 sq cm
Parking Brake Type	: Hand operated
Type	: Spring actuated parking brake acting on rear wheels
Engine Exhaust Brake	: Pneumatically operated with foot control valve

FRAME

Ladder type heavy duty frame with rivetted/bolted cross members Side members are of channel section Depth -223 mm (max) Width - 60mm

SUSPENSION

Type	: Semi elliptical leaf spring at front and rear Antiroll bar at front axle only
Spring Span	: Front - 1450 mm Rear - 1600 mm
Leaf Width	: Front - 70 mm Rear - 80 mm
Shock Absorber	: Hydraulic double acting telescopic type at front and rear

WHEELS AND TYRES

Tyres	: 11R22.5 - 16 PR
Wheel Rims	: 8.25x22.5
No. Of Wheels	: Front - 2 Rear - 4 Spare - 1

FUEL TANK

Capacity	: 250 litres
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COWL

All steel full forward control cowl, without wind screen

ELECTRICAL SYSTEMS

System Voltage	: 24 Volts
Alternator Capacity	: 45 Amps
Battery,as per DIN:72311 & BS:3911	: 2x12 Volts, 180 Ah

PERFORMANCE

Max. Geared Speed in Top	: 96 kmph
Gear (With Std. Rear Axle)	
Max. climbing ability in	: 30 %
1st Gear with standard gear box & rear axle	
Wheel Base (mm)	: 5545
Minimum Turning Circle	: 20400
Dia. in mm as per IS: 9435	
Minimum Turning	: 22530
Clearance Circle Dia. in mm as per IS:9435	

MAIN CHASSIS DIMENSIONS AS PER IS 9435 IN mm

Wheel Base	: 5545
Track front	: 1964
Track rear	: 1817
Overall Length	: 10645
Max. Width	: 2434
Front Overhang	: 1775

WEIGHTS (kg)

Bare chassis kerb weight	: 4550
with Cowl (With spare wheel and tools) as per IS 9211	
Max. Permissible FAW	: 5000
Max. Permissible RAW	: 10200
Max. Permissible GVW	: 13000

Accessories shown in the picture or elsewhere do not constitute standard fitment.

CAUTION : Do not weld or drill on chassis frame.

Indicative Specifications for Reference only. Contents are subject to change without notice.

For further details please contact : TATA Motors or your nearest Tata Motors Dealers.



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