Series W121

Engine

Model

OM 621 III

Output SAE

60 gr HP/4200 rpm

DIN

55 PS/4200 rpm

Max. torque SAE

87 ft. lbs./2400 rpm

DIN

83.2 ft. lbs./2400 rpm

Number of cylinders

4

Bore/stroke

3.43 ins./3.29 ins.

Total piston displacement

121.27 cu. ins.

Compression ratio

21:1

Lubrication system

forced-feed pressure lubrication with oil-water heat exchanger

Cooling system

water cooling with thermostat

Crankshaft bearings

three-multi-layer bearings

Arrangement of valves

inhead, overhead camshaft

Fuel supply

piston pump, connected with an injection pump

Fuel filter, before feed pump

type-mesh through filter, Armat W. Frankfurt

after feed pump

Bosch, felt tube filter FJ/AF/22 or Knecht FB 402

Oil pump

geared pump

Air filter

oil-bath damper filter Knecht LB 627

Cooling water circulation

centrifugal pump

Radiator design

grilled tube radiator

Injection pump

Bosch PES 4 M 50/320 RS 14

Injection pressure

1,565-1,700 lbs. per sq. in.

Fuel feed-in start

26-38° before UDC

Injection order

1 - 3 - 4 - 2
Type of governor
Generator
Starter motor
Battery
Engine mounting

Centrifugal governor EP/MN 60 7 d
Bosch LJ/GEG 160/12-2500 R 8
Bosch EJD 1,8/12 R 104
1 x 66 Ah - 12 Volt
3 point, on rubber blocks

Capacities (Imp./US)

Fuel tank (gals) 11.5/13.7
incl. reserve (gals) 1.1/ 1.3
Oil in sump, max. (pts.) 7 / 8.5
min. (pts.) 4.4/ 5.3
Oil in transmission (pts.) 2.5/ 3
Oil in rear-axle housing(pts.) 4.4/ 5.3
Oil in steering-gear housing (pt.) 0.52/0.62
Water in cooling system with heater (gals) 2.2/ 2.7

Power Transmission

Clutch
single-plate, dry clutch, Fichtel and Sachs type KS 12 KV
Transmission
fully baulked synchronised in all forward gears
Reduction ratio
i_f = 4.05/2.38/1.53/1 i_r = 3.92
Type of gear-shift
steering column gear shift
Steering wheel
two spoke with padded hub and signal ring
Drive shaft
divided shafting
Differential gear
bevel gearing
Drive of axle halves
hypoid gearing
Rear axle reduction
i = 3.9
Chassis

Frame
Wheels
Tires
Tire pressure, front/rear
Type of rim
Rim size
Front axle
Rear axle
Springs, front
Springs, rear
Shock absorbers
Shock absorbers
Stabiliser
Chassis lubrication
Wheel camber, front
Wheel camber, rear left
Wheel camber, right
King pin inclination
Toe in
Caster
Steering
Steering reduction
Locking angle of wheel max.
Tie rod

frame-floor unit
steel disc wheels
7.00-13 tubeless
21.5 - 27 lbs. per sq. in.
drop-base rim
5 JK x 13-B
sub-frame, double wish-bone arms, independent wheel suspension
single joint swing axle with low pivot
coil springs with progressively effective rubber blocks and shock absorbers
coil springs and a compensating spring, progressively effective rubber blocks and shock absorbers
hydraulic telescopic absorbers on both front and rear axles
Bilstein B 36 or TG 35 x 210 Stabilus
Stabilus TG 40 x 205 or Bilstein B 46
Torsion bar stabiliser in front
individual lubrication
30' ± 10'
1° 30' ± 30'
1° 40' ± 30'
5° 30' ± 10'
0-0.078" 3° 30' ± 15'
DB-recirculating ball-type steering with automatic re-adjustment steering shock absorbers
21.0
39°
in three parts (Free of service)
Foot brake 4-wheel hydraulic brake
Hand brake mechanical pistol-grip hand brake acting on rear wheels
Brake drums Ø front/rear 9.05"
Total braking area 165 sq. ins.

Weights in lbs.

<table>
<thead>
<tr>
<th>Description</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry weight without spare wheel and tool kit</td>
<td>2700</td>
</tr>
<tr>
<td>Empty weight acc. to DIN 70020</td>
<td>2865</td>
</tr>
<tr>
<td>Permissible axle load, front/rear</td>
<td>1830/2095</td>
</tr>
<tr>
<td>Permissible total weight</td>
<td>3860</td>
</tr>
<tr>
<td>Permissible weight of loaded trailer with trailer brake</td>
<td>2650</td>
</tr>
<tr>
<td>Permissible weight of loaded trailer without trailer brake</td>
<td>1510</td>
</tr>
</tbody>
</table>

Dimensions

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheelbase</td>
<td>106.3 ins.</td>
</tr>
<tr>
<td>Track, front</td>
<td>57.8 ins.</td>
</tr>
<tr>
<td>Track, rear</td>
<td>58.5 ins.</td>
</tr>
<tr>
<td>Overall length of vehicle</td>
<td>186.5 ins.</td>
</tr>
<tr>
<td>Max. breadth of vehicle</td>
<td>70.7 ins.</td>
</tr>
<tr>
<td>Max. height of vehicle unloaded</td>
<td>58.8 ins.</td>
</tr>
<tr>
<td>Cubic capacity of trunk</td>
<td>22.6 cu. ft.</td>
</tr>
<tr>
<td>Turning circle - Ø</td>
<td>37.4 ft.</td>
</tr>
</tbody>
</table>

Max. Speeds in mph

<table>
<thead>
<tr>
<th>Gear</th>
<th>Speed (mph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st gear</td>
<td>20</td>
</tr>
<tr>
<td>2nd gear</td>
<td>34</td>
</tr>
</tbody>
</table>
3rd gear
4th gear

Climbing ability

1st gear
2nd gear
3rd gear
4th gear

Fuel consumption

Measured acc. to DIN 70030 at 58 m.p.h.

over average cross-country journeys

37.1 miles per Imp. gal.
30.9 miles per U.S. gal.

43.4-33.2 miles per Imp. gal.
36.2-27.7 miles per U.S. gal.

Stuttgart-Untertürkheim, August 1961.
EXO/VF
TYP 190 D

DIMENSIONS
(dimensions appr. in mm)

TECHNICAL GRAPHS
(load capacity
2 passengers)

Output, torque and effective pressure

Fuel consumption

Traveling speed and engine speed

Climbing ability

Acceleration in the individual gears

Acceleration through the gears