ENGINE
Model.................................. Case 4-390
Type............................................. Diesel
Cylinders............................................. 4
Bore/Stroke ...................... 4.0” x 4.72”
(102 mm x 120 mm)
Displacement.............. 239 in 3  (3.92 L)
Fuel injection ............................. Direct
Horsepower per SAE J1349 and J1995 –
Gross.......... 54 (40 kW) @ 2000 rpm
Net ............. 51 (38 kW) @ 2000 rpm
Peak torque –
@ 1200 rpm...... 179 lb·ft (243 N·m)

POWERTRAIN
Drive pump ..... Tandem, axial piston
hydrostatic transmission
Flow ............................... Bi-directional
Controls...... Low-effort, servo assist
Drive motors ..... Fixed displacement
gerotor motors
Final drive...... Single stage reduction
chain drive to all wheels
Drive chain –
Size....................... No. 80 HT
Brakes ......... Mechanical parking latch
spring applied, cable release
Engagement........... Raise the seat bar
Travel speed...............0 - 6.2 mph
(0 - 10 km/h)

HYDRAULIC SYSTEM
Standard equipment pump –
Gear pump driven directly
off engine crankshaft
Pump flow @ rated engine rpm
Total ........ 15.3 gpm (57.9 L/min)
Loader control valve.......... 2-spool
mono cast with
float detent
Main relief............... 2300 psi
(159 bar)
Hydraulic filters .............. 6-micron,
spin-on replaceable element
with warning light

ELECTRICAL SYSTEM
Alternator.......................... 65 amp
Battery .......... 12 volt low-maintenance
685 cold-cranking amps

OPERATOR ENVIRONMENT
Roll out ROPS/FOPS canopy
w/side screens
Seat presence switch
Vinyl seat
2” (51 mm) retractable seat belt
Restraint bar w/integral armrests
Two hands-only control levers
Hand throttle
Loader control lockout system
Loader arm lock strut
Front and rear halogen floodlights
Floor cleanout panel

INSTRUMENTATION
Electro-mechanical hourmeter
Fuel level LED bar graph
Warning lights –
Alternator output
Battery voltage
Fuel level
Engine coolant temperature
Transmission charge pressure
Transmission temperature
Engine oil pressure
Air cleaner restriction
Hydraulic filter restriction
Systems normal
Warning alarms –
Engine coolant temperature
Transmission charge pressure
Alternator output
Engine oil pressure
Hydraulic oil temperature
Battery voltage
Seat belt reminder

SERVICE CAPACITIES
Fuel tank..................... 19.5 gal (73.8 L)
Engine oil w/filter ........ 11 qt (10.4 L)
Engine cooling system.... 18 qt (17 L)
Hydraulic system –
Reservoir
w/filter change ...... 23 qt (21.8 L)
Total .................... 10.5 gal (39.8 L)

OPTIONS
OPERATOR’S COMPARTMENT
Deluxe suspension seat
Seat backrest extension
Horn
3” (76 mm) seat belt
Foot-operated loader controls
Low noise package

HYDRAULICS
Hydraulic self-leveling
High-flow auxiliary hydraulics
30 gpm (114 L/min)
Auxiliary hydraulics
15.3 gpm (57.9 L/min)

OTHER
Backup alarm
Rotating beacon
Front and rear lift brackets
Cold start kit
Cooling package
Drawbar
Special paint

BUCKETS
<table>
<thead>
<tr>
<th>Bucket</th>
<th>Struck</th>
<th>Heaped</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>Capacity</td>
<td>Capacity</td>
</tr>
<tr>
<td>DIRT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54”</td>
<td>7.9 ft³</td>
<td>10.1 ft³</td>
</tr>
<tr>
<td>(1.4 m)</td>
<td>(0.22 m³)</td>
<td>(0.28 m³)</td>
</tr>
<tr>
<td>63”</td>
<td>9.1 ft³</td>
<td>11.8 ft³</td>
</tr>
<tr>
<td>(1.6 m)</td>
<td>(0.26 m³)</td>
<td>(0.34 m³)</td>
</tr>
<tr>
<td>UTILITY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54”</td>
<td>13.7 ft³</td>
<td>17.0 ft³</td>
</tr>
<tr>
<td>(1.4 m)</td>
<td>(0.39 m³)</td>
<td>(0.48 m³)</td>
</tr>
<tr>
<td>63”</td>
<td>15.9 ft³</td>
<td>19.8 ft³</td>
</tr>
<tr>
<td>(1.6 m)</td>
<td>(0.45 m³)</td>
<td>(0.56 m³)</td>
</tr>
<tr>
<td>73”</td>
<td>18.5 ft³</td>
<td>23.1 ft³</td>
</tr>
<tr>
<td>(1.85 m)</td>
<td>(0.52 m³)</td>
<td>(0.65 m³)</td>
</tr>
</tbody>
</table>

TIRES
Pneumatic (tubeless)
Goodyear 10.00 x 16.5, 6PR Traction
Width over tires................. 59.9” (1.52 m)
Galaxy “Beefy Baby” 10.00 x 16.5, 8PR
Width over tires................. 59.9” (1.52 m)
Galaxy “Fat Foot” 13.00 x 16.5, 10PR
Width over tires................. 65” (1.65 m)

Non-Pneumatic
Mitco 6.50 x 16 Industrial Lug, Solid
Width over tires................. 53.2” (1.35 m)
Airboss 7.50 x 15 Industrial Lug
Width over tires................. 57.6” (1.46 m)
Airboss Altrakka II 10.00 x 16.5
**DIMENSIONS**

A. Overall operating height – dirt bucket ..................... 145.5” (3.69 m)
   Height to*
B. Bucket hinge pin.......................................................... 110.5” (2.81 m)
C. Top of rollover protective structure (ROPS) ............... 77” (1.96 m)
D. Bottom of level bucket, loader arm fully raised ........... 105” (2.67 m)
   Overall length –
E. w/o attachment .......................................................... 96.5” (2.45 m)
F. w/bucket on ground...................................................... 125” (3.18 m)
G. Dump angle at maximum height –
   Dirt bucket ........................................................................ 42.5°
H. Dump height – loader arm fully raised –
   Dirt bucket ........................................................................ 84” (2.13 m)
J. Reach – loader arm fully raised –
   Dirt bucket ........................................................................ 22” (0.56 m)
K. Bucket on ground .......................................................... 29°
L. Bucket at full height ...................................................... 100°
M. Wheelbase ...................................................................... 37” (0.94 m)
N. Ground clearance .......................................................... 6.5” (0.17 m)
O. Angle of departure .......................................................... 26.5°
   Clearance circle front –
P. Less bucket .................................................................. 44” (1.12 m)
Q. w/54” (1.37 m) dirt bucket on ground ....................... 73” (1.85 m)
Q. w/63” (1.60 m) dirt bucket on ground ....................... 74.8” (1.90 m)
R. Clearance circle rear ...................................................... 59” (1.50 m)
   Operating weight ............................................................ 5,558 lb (2521 kg)

NOTE: "Dimensions taken with full fuel, 175 lb (80 kg) operator, and standard equipment including 100 lb (45 kg) counterweight, 54” (1372 mm) dirt bucket and 7.00 x 15 6PR tires.

**PERFORMANCE SPECS**

Operating load .......... 1,400 lb (635 kg)
Tipping load .......... 2,800 lb (1270 kg)
Breakout force –
   Lift cylinder ............. 2,773 lbf
   (12 335 N)
   Bucket cylinder ........... 3,066 lbf
   (13 638 N)

Cycle time –
   Raise ..................... 4.7 seconds
   Lower ..................... 2.6 seconds
   Dump ..................... 2.3 seconds
   Rollback .................. 1.5 seconds

NOTE: SAE rated lift capacities. Cycle time measured with rated load in bucket.

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