## ENGINE

<table>
<thead>
<tr>
<th>Model</th>
<th>Case 432T / M3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Diesel 4-stroke, Turbo, D.I.</td>
</tr>
<tr>
<td>Cylinder</td>
<td>4</td>
</tr>
<tr>
<td>Bore/stroke</td>
<td>3.9 x 4.1 in (99 x 104 mm)</td>
</tr>
<tr>
<td>Displacement</td>
<td>195 cu in (3.2 L)</td>
</tr>
<tr>
<td>Fuel injection</td>
<td>Direct</td>
</tr>
<tr>
<td>Fuel</td>
<td>#2 diesel</td>
</tr>
<tr>
<td>Fuel filter</td>
<td>In-line strainer</td>
</tr>
</tbody>
</table>

### Air intake
- Turbocharged w/ external EGR

### Cooling
- Liquid

### Engine speeds
- **High idle - no load (rpm)**: 2675 +/- 75
- **Rated - full load (rpm)**: 2500
- **Low idle (rpm)**: 1075 +/- 75

### Horsepower per SAE J1349
- **Gross**: 90 hp (67 kW) @ 2500 rpm
- **Net**: 84 hp (63 kW) @ 2500 rpm

### Peak torque
- 251 lb-ft (340 Nm) @ 1400 rpm

## ENGINE COOLING

<table>
<thead>
<tr>
<th>Radiator –</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core type</td>
</tr>
<tr>
<td>Core size area</td>
</tr>
<tr>
<td>Rows of tubes</td>
</tr>
<tr>
<td>Cap pressure</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fan –</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
</tr>
<tr>
<td>Ratio</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Style</td>
</tr>
<tr>
<td>Flow</td>
</tr>
</tbody>
</table>

### Engine lubrication
- **Pump**: Rotor pump w/ deep sump pan, plate cooler, and pressurized under-piston nozzles

### Pump operating angle ratings
- **Side to side**: 45°
- **Bucket up**: 35°
- **Bucket down**: 45°

###Oil filtration
- Replaceable, full-flow cartridge

## POWERTRAIN

### Drive pump – Mechanical
- **Pump to engine ratio**: 1:1
- **Displacement cc (cu in)**: 2.81 cu in (46 cc)
- **Flow at rated engine rpm @100% efficiency**: 30.4 gpm (115 L/min)
- **Charge Pressure**: 363 psi (25 bar)
- **System relief**: 5,220 psi (360 bar)

### Drive motors
- **Max. displacement**: 28.68 cu in (470 cc)
- **Displacement - optional high speed**: 17.21 cu in (282 cc)
- **Speed @ high idle engine rpm (100% eff. at rated engine rpm)**: 244
- **Speed @ optional high speed rpm**: 408
- **Torque @ max displacement and relief pressure (calculated, 345 bar)**: 2,694 lb-ft (1987 N·m)

### Travel speed –
- **Low range**: 7.2 mph
- **High range (optional)**: 11.9 mph

### Final drive
- Single-reduction chain drive

### Drive chain –
- **Size**: ASA #100
- **Tensile strength**: 30,000 lb (133.4 kN)

### Axles –
- **Torque @ max. displacement and relief pressure**: 6,623 lbf-ft (8980 N·m)
- **Diameter**: 2.44 in (61.94 mm)
- **Length**: 15.7 in (398.7 mm)

### Parking brake
- **Type**: Spring-applied, hydraulic release disc
- **Engagement**: Depress on/off brake button on handle or instrument panel, raise seat bar, or stop engine

## HYDRAULIC SYSTEM

### Standard equipment pump –
- **Type**: Gear

### Displacement –
- **Standard Aux.**: 2.08 cu in (34.1 cc)
- **High Flow Aux.**: 1.12 cu in (18.3 cc)

### Pump flow @ rated engine rpm @ 100% efficiency
- **Loader raise**: 22.5 gpm (85 L/min)
- **Bucket dump**: 3.481 psi (240 bar)
- **Bucket curl**: 3.336 psi (230 bar)

### Hydraulic filter
- 6 micron / Spin on

### Hydraulic lines –
- **Tubing**: 37° JIC Flare
- **Loop hoses**: SAE 100 R13

### Hydraulic oil cooler –
- **Number of fins**: 10 per inch (3.94 per cm)
- **Number of Tubes**: 11
- **Area**: 130.7 sq in (843 cm²)
INSTRUMENTATION

Indicators
  Digital Hourmeter
  Fuel level LCD bar graph with alarm

Warning lights with alarms
  Engine coolant temperature
  Engine oil pressure
  Engine Malfunction
  Hydraulic charge pressure
  Hydraulic filter restriction
  Hydraulic oil temperature

Warning alarms
  Battery voltage (plus display)

Indicator light
  Engine preheat
  Parking brake
  Seat bar reminder

OPERATOR ENVIRONMENT

ROPS/FOPS level 1 canopy w/side screens
Tilt ROPS/FOPS
Rear window w/ emergency escape
Instrument panels
  Suspension vinyl seat
  2 in (51 mm) retractable seat belt
  Hand throttle
  Foot throttle
  Alarm package
  Headliner
  Top window
  Power plug socket
  Foot rest
  Storage tray
  Low effort ergonomic hand controls
  Padded seat bar w/integral armrests
  Loader control lockout system
  Electric parking brake control
  Floor cleanout panel

ELECTRICAL SYSTEM

Alternator 95 amp
Starter 4.0 kW
Battery
  12-volt low-maintenance 1000 cold-cranking amps @ 0° F (-18° C)

WEIGHTS

Operating weight 7,700 lb (3490 kg)
Shipping weight 7,365 lb (3340 kg)
Add-on weights –
  Side cab glass 46.9 lb (21.3 kg)
  Lexan door 74 lb (33.6 kg)
  Glass door with wiper 134 lb (60.8 kg)
  Suspension seat 22.1 lb (10 kg)

SERVICE CAPACITIES

Fuel tank 25.5 gal (96.5 L)
Engine oil with filter 10.5 qt (10 L)
Hydraulic system –
  Reservoir 5.9 gal (22.4 L)
  Total NA
Chain tanks (per side) 7.8 qt (7.4 L)

CYLINDERS

Lift cylinder –
  Bore diameter 2.5 in (63.5 mm)
  Rod diameter 1.75 in (44.5 mm)
  Stroke 32.2 in (817.9 mm)
  Closed length 45.6 in (1158.0 mm)

Bucket cylinders –
  Bore diameter 3.0 in (76.2 mm)
  Rod diameter 1.5 in (38.1 mm)
  Stroke 16.1 in (410.0 mm)
  Closed length 24 in (610.0 mm)

TIRE SELECTION

<table>
<thead>
<tr>
<th>Size</th>
<th>Ply Rating</th>
<th>Tread Depth</th>
<th>Tire Width</th>
<th>Tread Width</th>
<th>Width Over Tires</th>
<th>Tire Weight*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy-Duty</td>
<td>12 x 16.5</td>
<td>—</td>
<td>—</td>
<td>57 (1465)</td>
<td>70 (1785)</td>
<td>—</td>
</tr>
<tr>
<td>Premium</td>
<td>12 x 16.5</td>
<td>—</td>
<td>—</td>
<td>57 (1465)</td>
<td>70 (1785)</td>
<td>—</td>
</tr>
<tr>
<td>Premium-Lined</td>
<td>12 x 16.5</td>
<td>—</td>
<td>—</td>
<td>57 (1465)</td>
<td>70 (1785)</td>
<td>—</td>
</tr>
<tr>
<td>Severe Duty</td>
<td>12 x 16.5</td>
<td>—</td>
<td>—</td>
<td>57 (1465)</td>
<td>70 (1785)</td>
<td>—</td>
</tr>
<tr>
<td>Mining</td>
<td>12 x 16.5</td>
<td>—</td>
<td>—</td>
<td>57 (1465)</td>
<td>70 (1785)</td>
<td>—</td>
</tr>
<tr>
<td>Non-Pneumatic</td>
<td>12 x 16.5</td>
<td>—</td>
<td>—</td>
<td>57 (1465)</td>
<td>70 (1785)</td>
<td>—</td>
</tr>
<tr>
<td>Flotation</td>
<td>33 x 15.5</td>
<td>—</td>
<td>—</td>
<td>60 (1544)</td>
<td>76 (1930)</td>
<td>—</td>
</tr>
<tr>
<td>Premium</td>
<td>14 x 17.5</td>
<td>—</td>
<td>—</td>
<td>62 (1579)</td>
<td>76 (1930)</td>
<td>—</td>
</tr>
</tbody>
</table>
DIMENSIONS

Rated operating load – 50%  2,500 lb (1135) kg
Tipping load 5,000 lb (2268 kg)
Breakout forces (calculated @ 3150 psi) –
Lift cylinder 6,125 lb (27.2 kN)
Bucket cylinder 8,585 lb (38.2 kN)
Cycle Times (seconds)–
Raise 3.7
Lower 1.9
Dump 2.7
Roll back 2.0

<table>
<thead>
<tr>
<th>Optional Buckets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
</tr>
<tr>
<td>------</td>
</tr>
<tr>
<td>Dirt &amp; Foundry</td>
</tr>
<tr>
<td>Low Profile</td>
</tr>
<tr>
<td>Low Profile Extended</td>
</tr>
<tr>
<td>Light Material</td>
</tr>
<tr>
<td>Manure &amp; Slurry</td>
</tr>
<tr>
<td>Heavy Duty</td>
</tr>
</tbody>
</table>
STANDARD EQUIPMENT

OPERATOR’S COMPARTMENT
- ROPS/FOPS level 1 canopy w/side screens
- Tilt ROPS/FOPS
- Rear window w/ emergency escape
- Instrument panels
- Suspension vinyl seat
- 2 in (51 mm) retractable seat belt
- Hand throttle
- Foot throttle
- Alarm package
- Headliner
- Top window
- Cup holder
- Power plug socket
- Foot rest
- Storage tray
- Low effort ergonomic hand controls
- Padded seat bar w/integral armrests
- Loader control lockout system
- Electric parking brake control
- Floor cleanout panel

LOADER
- Radial loader arm design
- Mechanical attachment coupler
- Loader lift arm support strut

ENGINE
- Case/Iveco 432T/M3 diesel
- No maintenance belt
- Over & under radiator and oil cooler
- Glow plug
- Integral engine oil cooling
- Fuel filter w/water trap
- Dual element air cleaner
- 85 amp alternator
- 1000 CCA 12-volt battery

HYDRAULICS
- Auxiliary hydraulics 3050 psi (210 bar) – 23.8 gpm (90 L/min)
- Hydraulic circuit pedal lock
- Loader arm-mounted ISO flat face connectors
- Auxiliary function lockout override
- Loader function lockout system
- Loader lift lockout override
- 3-spool loader control valve
- Heavy-duty oil cooler
- Loader arm float position

POWERTRAIN
- Hydrostatic four wheel drive
- Servo controlled pumps
- ASA #100HS drive chain
- SAHR disc parking brakes

OPTIONAL EQUIPMENT

OPERATOR’S COMPARTMENT
- Deluxe cloth suspension seat w/ heater and lumbar support
- Interior mirror
- Electric auxiliary hydraulic control
- Glass front door w/wiper & washer
- Sliding side windows
- 3 inch retractable seat belt
- Heater and AC
- Radio
- Demolition door

LOADER
- Auxiliary front electric control
- Ride control
- Switchable EH controls
- Hydraulic attachment coupler
- Hydraulic one-way self-leveling

ENGINE
- Coolant block heater
- Battery disconnect switch

HYDRAULICS
- High-flow auxiliary hydraulics
- 3050 psi (210 bar) – 33.2 gpm (126 L/min)
- Second auxiliary hydraulics
- Attachment case drain plumbing

OTHER
- 2 speed transmission
- Add-on counterweights
- Lockable service access hood
- Single-point daily servicing
- Halogen lights, 2-front, 2 side, 2-rear (halogen)
- Rear tail lights
- Remote oil drain

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.
NOTE: All engines meet current EPA emissions requirements.
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