ENGINE
Model................................. Case Family III
668T/M2 diesel, Tier II certified
Cylinders.......................... 6
Bore/Stroke...................... 4.1” x 5.2”
(104 x 132 mm)
Displacement........... 411 in³ (6.8 L)
Fuel injection.................. Direct
Fuel............................. #2 Diesel
Fuel filter.................. Spin-on with
in-line strainer
Air intake........................ Cross-flow
Cooling............................ Liquid
Engine speeds (rpm)
High idle - no load .......... 2220±50
Rated - full load............... 2000
Low idle.............................. 800-1050
Horsepower per SAE J1349
Net.................. 96 (72 kW) @ 2000 rpm
Gross.............. 99 (74 kW) @ 2000 rpm
Peak torque @ 1200 rpm
Net.................. 321 lb·ft (435 N·m)
Gross............ 325 lb·ft (441 N·m)
Engine lubrication –
Pump........ Deep sump plate cooler
with pressurized
under-piston nozzles
Pump operating angle ratings
Side-to-side........................ 40°
Fore and aft......................... 45°
Oil filtration... Replaceable, spin-on
full-flow cartridge

POWERTRAIN
Dual path hydrostatic
Pump – variable axial piston
Motor – variable bent axis piston
Maximum drawbar pull* ... 42,000 lb
(186.8 kN)
Transmission.... Single lever control –
electronic straight tracking
Oil filter .......... 2 micron, spin-on
replaceable
Travel speeds* –
Forward ...... 0-6 mph (0-9.7 km/h)
Reverse ...... 0-6 mph (0-9.7 km/h)
*Measured using standard track chain. Increase
travel speeds by 4% and reduce drawbar pull by
4% with the optional CELT track chain.
Steering brakes ....... Heavy-duty, spring-applied,
hydraulic pressure release
Final drive ............. 2 helical gear
reduction to planetary output
Ratio.............................. 62:1

TRANSMISSION COOLING
Type ......................... Oil to water
Core size ............... 185.5 in² (1197 cm²)

HYDRAULIC SYSTEM
Standard equipment pump
Pump flow @ 2000 rpm
@ 3000 psi (209 kPA).......23.9 gpm
(90.5 L/min)
Max. system pressure.... 3025+ psi
................................ (20 855+ kPA)

CYLINDERS
Lift cylinder (2)
Bore diameter........ 3.50” (89 mm)
Rod diameter ...... 1.75” (44.5 mm)
Stroke ................ 15.5” (394 mm)
Angle cylinder (2)
Bore diameter........ 3.50” (89 mm)
Rod diameter ...... 1.75” (44.5 mm)
Stroke ................ 15.5” (394 mm)
Tilt cylinder (1)
Bore diameter........ 3.50” (89 mm)
Rod diameter ...... 1.75” (44.5 mm)
Stroke ................ 5.80” (144 mm)

ENGINE COOLING
Radiator –
Core size area...... 486 in² (0.31 m²)
Rows of tubes ................. 6
Fan –
Diameter ........... 21.6” (550 mm)
Ratio ....................... 1.1:1

ELECTRICAL SYSTEM
Alternator....................... 65 amp
95 amp w/A/C
Battery........ 12-volt low-maintenance
650 cold-cranking amps
@ 0° F (-18 C)

UNDERCARRIAGE
Track adjustment .......... Hydraulic
Frame ....................... Rigid suspension
Length of track –
on ground.............. 93” (2352 mm)
Track link pitch....... 6.73” (171 mm)
Track shoe height.... 2.06” (52 mm)
Pin diameter .......... 1.32” (33 mm)
Bushing diameter –
CLT track ........... 2.24” (57 mm)
CELT track .......... 3.0” (76 mm)
Bolt diameter ........... 0.625” (16 mm)
Track shoes per side ............ 40
Track rollers per side .......... 7
Carrier rollers per side .......... 1
Track roller rail dia.. 7.48” (190 mm)

TRACK ON GROUND
Shoe Area – in² (cm²)
18” (457 mm) .......... 3334 (21 510)
20” (508 mm) .......... 3704 (23 897)
24” (610 mm) .......... 4449 (28 703)
28” (711 mm) .......... 5186 (33 458)

TRACK
EXTRA LONG TRACK
18” (457 mm) closed grousers and CLT
18” (457 mm) open grousers and CELT

WIDE TRACK
18” (457 mm) closed grousers and CLT
18” (457 mm) open grousers and CELT
20” (645 mm) closed grousers and CLT
20” (645 mm) open grousers and CELT
24” (610 mm) closed grousers and CLT
24” (610 mm) open grousers and CELT

LGP
28” (711 mm) closed grousers and CLT
28” (711 mm) open grousers and CELT
**OPERATOR ENVIRONMENT**

- **ROPS canopy**
- Single lever control for speed, steering and direction
- Forward/reverse speed ration selector
- Adjustable armrests
- Foot rests
- Retractable seat belt, 2” (51 mm)
- Vinyl suspension seat w/back adjustment

**INSTRUMENTATION**

- **Warning lights:**
  - Air filter
  - Alternator
  - Engine oil pressure
  - Hi range
  - Hydraulic filter
  - Transmission filter
  - Transmission pressure
- **Gauges:**
  - Battery voltage
  - Fuel level
  - Hourmeter
  - Tachometer
  - Transmission oil temperature
  - Water temperature
- **Audible warnings:**
  - Engine oil pressure
  - Transmission pressure

**BLADE**

- Variable blade pitch.... 52° forward
  - 60° rearward
- Lift speed (per second) 18” (457 mm)
- Cutting edge .......... Reversible and replaceable
  - Width .................. 8.0” (203 mm)
  - Thickness ............. 0.75” (19 mm)

**RIPPER**

- Max. penetration....... 14” (356 mm)
- Width .................... 72.4” (1839 mm)
- Cut width .............. 70.1” (1780 mm)
- Max. ground clearance........ 17.3” (439 mm)
- Points .................. Replaceable
- Max. number of shanks ......... 5
- Tooth spacing –
  - with 5 teeth.......... 17.8” (452 mm)
  - with 3 teeth......... 34” (864 mm)
- Hydraulic cylinder (double-acting)
  - Diameter .............. 3.25” (82.6 mm)
  - Stroke .................. 8.4” (213 mm)
  - Rod ..................... 1.75” (44.5 mm)

**SERVICE CAPACITIES**

- **Fuel tank** ............ 50 gal (189.3 L)
- **Engine oil w/filter** .... 15.8 qt (15 L)
- **Engine oil w/o filter**.... 15 qt (14.2 L)
- **Engine cooling system** .. 20 qt (18.9 L)
- **Hydraulic reservoir** .... 20 gal (70.7 L)
- **Final drive (per side)** .. 15 qt (14.2 L)
- **Track rollers (ea.)** ...... 0.26 qt (0.25 L)
- **Front idlers (ea.)** ...... 0.52 qt (0.49 L)
- **Carrier rollers (ea.)**.... 0.25 qt (0.24 L)

**OPERATING WEIGHTS**

- Unit equipped with ROPS, full fuel tank, 170 lb (77 kg) operator, drawbar, side shield, track guides, backup alarm, horn and lights.
  - Long Track .......... 19,600 lb (8900 kg)
  - Wide Track ..........20,200 lb (9181 kg)
  - LGP............... 20,700 lb (9402 kg)
- **Add-on weights –**
  - Drawbar............... 85 lb (38 kg)
  - Ripper (3 shank)..... 1,400 lb (646 kg)
  - Winch ................. 1,200 lb (545 kg)
  - Front counterweight .. 877 lb (398 kg)
  - Rear counterweight... 900 lb (408 kg)
  - Cab ..................... 930 lb (422 kg)
  - ROPS heater .......... 70 lb (32 kg)
  - CELT chain ........... 115 lb (52 kg)
  - Center rockguard ..... 160 lb (72 kg)
  - Sweeps ............... 100 lb (47 kg)
  - Dual batteries........ 60 lb (29 kg)
**DIMENSIONS**

<table>
<thead>
<tr>
<th></th>
<th>Long Track (XLT)</th>
<th>Wide Track (WT)</th>
<th>Low Ground Pressure (LGP)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BLADES</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blade width</td>
<td>104&quot; (2642 mm)</td>
<td>110&quot; (2794 mm)</td>
<td>120&quot; (3048 mm)</td>
</tr>
<tr>
<td></td>
<td>124&quot; (3150 mm)</td>
<td>130&quot; (3302 mm)</td>
<td></td>
</tr>
<tr>
<td>SAE blade capacity</td>
<td>2.16 yd³ (1.65 m³)</td>
<td>2.32 yd³ (1.77 m³)</td>
<td>2.52 yd³ (1.93 m³)</td>
</tr>
<tr>
<td></td>
<td>2.60 yd³ (1.99 m³)</td>
<td>2.73 yd³ (2.09 m³)</td>
<td></td>
</tr>
<tr>
<td><strong>A.</strong> Blade lift above ground</td>
<td>34.4&quot; (874 mm)</td>
<td>34.4&quot; (874 mm)</td>
<td>34.4&quot; (874 mm)</td>
</tr>
<tr>
<td></td>
<td>34.4&quot; (874 mm)</td>
<td>34.4&quot; (874 mm)</td>
<td>34.4&quot; (874 mm)</td>
</tr>
<tr>
<td><strong>B.</strong> Blade depth below ground</td>
<td>19&quot; (483 mm)</td>
<td>19&quot; (483 mm)</td>
<td>19&quot; (483 mm)</td>
</tr>
<tr>
<td></td>
<td>19&quot; (483 mm)</td>
<td>19&quot; (483 mm)</td>
<td>19&quot; (483 mm)</td>
</tr>
<tr>
<td>Blade angle both directions</td>
<td>25°</td>
<td>25°</td>
<td>25°</td>
</tr>
<tr>
<td>Blade tilt, each end (up to 8.3°)</td>
<td>15&quot; (381 mm)</td>
<td>15.9&quot; (404 mm)</td>
<td>17.3&quot; (439 mm)</td>
</tr>
<tr>
<td></td>
<td>17.9&quot; (455 mm)</td>
<td>18.8&quot; (478 mm)</td>
<td></td>
</tr>
<tr>
<td><strong>C.</strong> Blade height</td>
<td>36&quot; (914 mm)</td>
<td>36&quot; (914 mm)</td>
<td>36&quot; (914 mm)</td>
</tr>
<tr>
<td></td>
<td>36&quot; (914 mm)</td>
<td>36&quot; (914 mm)</td>
<td>36&quot; (914 mm)</td>
</tr>
<tr>
<td><strong>D.</strong> Cast reach</td>
<td>13.7&quot; (348 mm)</td>
<td>16.4&quot; (417 mm)</td>
<td>9.4&quot; (239 mm)</td>
</tr>
<tr>
<td></td>
<td>13.9&quot; (353 mm)</td>
<td>13.8&quot; (351 mm)</td>
<td>16.4&quot; (417 mm)</td>
</tr>
<tr>
<td><strong>E.</strong> Cut reach</td>
<td>0.7&quot; (18 mm)</td>
<td>3.5&quot; (86 mm)</td>
<td>-3.6&quot; (-91 mm)</td>
</tr>
<tr>
<td></td>
<td>0.9&quot; (23 mm)</td>
<td>0.8&quot; (20 mm)</td>
<td>3.4&quot; (86 mm)</td>
</tr>
<tr>
<td><strong>TRACKS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Track gauge</td>
<td>62&quot; (1.57 m)</td>
<td>62&quot; (1.57 m)</td>
<td>70&quot; (1.78 m)</td>
</tr>
<tr>
<td>Shoe width</td>
<td>20&quot; (508 mm)</td>
<td>20&quot; (508 mm)</td>
<td>24&quot; (610 mm)</td>
</tr>
<tr>
<td></td>
<td>24&quot; (610 mm)</td>
<td>28&quot; (711 mm)</td>
<td>28&quot; (711 mm)</td>
</tr>
<tr>
<td><strong>F.</strong> Track on ground</td>
<td>93&quot; (2.35 m)</td>
<td>93&quot; (2.35 m)</td>
<td>93&quot; (2.35 m)</td>
</tr>
<tr>
<td></td>
<td>93&quot; (2.35 m)</td>
<td>93&quot; (2.35 m)</td>
<td>93&quot; (2.35 m)</td>
</tr>
<tr>
<td>Area of track on ground</td>
<td>3704 in² (2.38 m²)</td>
<td>3704 in² (2.38 m²)</td>
<td>4449 in² (2.87 m²)</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>5.3 psi (40.1 kPa)</td>
<td>5.3 psi (40.1 kPa)</td>
<td>5.3 psi (40.1 kPa)</td>
</tr>
<tr>
<td></td>
<td>4.5 psi (31.3 kPa)</td>
<td>4.5 psi (31.3 kPa)</td>
<td>4.0 psi (27.6 kPa)</td>
</tr>
<tr>
<td></td>
<td>4.0 psi (27.6 kPa)</td>
<td>4.0 psi (27.6 kPa)</td>
<td></td>
</tr>
<tr>
<td><strong>DIMENSIONS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height to top of ROPS</td>
<td>109.2&quot; (2773 mm)</td>
<td>109.2&quot; (2773 mm)</td>
<td>109.2&quot; (2773 mm)</td>
</tr>
<tr>
<td>Height to top of cab</td>
<td>109.2&quot; (2773 mm)</td>
<td>109.2&quot; (2773 mm)</td>
<td>109.2&quot; (2773 mm)</td>
</tr>
<tr>
<td></td>
<td>109.2&quot; (2773 mm)</td>
<td>109.2&quot; (2773 mm)</td>
<td>109.2&quot; (2773 mm)</td>
</tr>
<tr>
<td>Height to top of cab with air conditioning</td>
<td>109.8&quot; (2878 mm)</td>
<td>109.8&quot; (2878 mm)</td>
<td>109.8&quot; (2878 mm)</td>
</tr>
<tr>
<td></td>
<td>109.8&quot; (2878 mm)</td>
<td>109.8&quot; (2878 mm)</td>
<td>109.8&quot; (2878 mm)</td>
</tr>
<tr>
<td><strong>H.</strong> Ground clearance w/drawbar</td>
<td>14.9&quot; (379 mm)</td>
<td>14.9&quot; (379 mm)</td>
<td>14.9&quot; (379 mm)</td>
</tr>
<tr>
<td></td>
<td>14.9&quot; (379 mm)</td>
<td>14.9&quot; (379 mm)</td>
<td>14.9&quot; (379 mm)</td>
</tr>
<tr>
<td><strong>I.</strong> Length</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blade straight with drawbar</td>
<td>174&quot; (4408 mm)</td>
<td>174&quot; (4408 mm)</td>
<td>174&quot; (4408 mm)</td>
</tr>
<tr>
<td>Blade straight with ripper</td>
<td>206&quot; (5233 mm)</td>
<td>206&quot; (5233 mm)</td>
<td>206&quot; (5233 mm)</td>
</tr>
<tr>
<td><strong>J.</strong> Width</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blade straight</td>
<td>104&quot; (2642 mm)</td>
<td>110&quot; (2794 mm)</td>
<td>110&quot; (2794 mm)</td>
</tr>
<tr>
<td>Blade angled</td>
<td>96&quot; (2446 mm)</td>
<td>102&quot; (2585 mm)</td>
<td>102&quot; (2585 mm)</td>
</tr>
<tr>
<td><strong>K.</strong> Over track</td>
<td>80&quot; (2032 mm)</td>
<td>80&quot; (2032 mm)</td>
<td>94&quot; (2388 mm)</td>
</tr>
<tr>
<td></td>
<td>94&quot; (2388 mm)</td>
<td>98&quot; (2489 mm)</td>
<td>98&quot; (2489 mm)</td>
</tr>
</tbody>
</table>

850K Page 3 of 4
STANDARD EQUIPMENT

OPERATOR’S COMPARTMENT
- Isolation mounted ROPS/FOPS canopy with headliner and floor mat
- Vinyl suspension seat w/back adjustment & adjustable arm rests
- Retractable seat belt, 2” (51 mm)
- Foot rests

ENGINE
- Case 668T/M2 diesel
- Automatic fan belt tensioner
- Integral engine oil cooling
- Fuel filter
- Dual element radial seal air cleaner
- 650 CCA 12-volt battery
- Anti-sandblast radiator
- Engine side panels
- Anti-freeze to -34°F
- Pusher fan

POWERTRAIN
- Dual path infinitely variable, single-lever controlled hydrostatic drive with electronic straight tracking & counter-rotation, 4-position forward/reverse ratio control
- Final drive – Triple reduction – helical gear/planetary. decelerator with hydrostatic drive retardation
- Automatic spring applied parking brake

BLADE
- 52° - 60° variable pitch with integral adjustment tool
- Single lever control for blade lift, angle and tilt

UNDERCARRIAGE
- Easy clean track covers
- Hydraulic track adjusters
- Case Lubricated Track Chain
- Permanently lubricated track and carrier rollers
- Track adjuster guard
- Track guides (front and rear)

OTHER
- Backup alarm
- Horn
- Anti-vandalism package
- Mirror
- Pre-cleaner
- Operator’s manual enclosure
- Master disconnect switch
- Front pull hook
- Hand throttle
- Decelerator
- Final drive seal guard
- O-ring face seal hydraulic fittings
- Vertical spin-on hydraulic & fuel filters

OPTIONAL EQUIPMENT

OPERATOR’S COMPARTMENT
- Cab (w/heater, 25,598 BTU (7.5 kW)/hr air conditioner, defroster, front windshield washer and 2F-1R lights)
- 3” (76 mm) seat belt
- Deluxe air suspension seat

HYDRAULICS
- 4 spool hydraulic valve for field-installed ripper

REAR MOUNTED EQUIPMENT
- Ripper, parallelogram 5 slot with 3 shanks

BLADES
- 104” (2.6 m) or 110” (2.8 m) XLT w/18” (457 mm) shoes
- 110” (2.6 m) or 120” (3.0 m) WT w/24” (610 mm) shoe
- 124” (3.2 m) or 130” (3.3 m) LGP w/28” (711 mm) shoes

GUARDS
- Sweeps
- Center rockguard

SCREENS
- Rear ROPS and cab
- Side ROPS
- Radiator brush

OTHER
- Lights – halogen, 4 front, 2 rear for cab or ROPS
- Counterweight, front
- Retrieval hitch
- Drawbar
- Sprocket, relieved (XLT w/ CLT only)
- Special paint
- Dual 12V battery
- Fan, reversible
- Case Extended Life Track
- Cold start aid
- Turbo precleaner
- Winch drive
- Tool box for ROPS

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: CNH America LLC reserves the right to change these specifications without notice and without incurring any obligation relating to such change. CNH America LLC does not warrant the safety or reliability of attachments from other manufacturers.

Case is a registered trademark of CNH America LLC. Any trademarks referred to herein, in association with goods and/or services of companies other than CNH America LLC, are the property of those respective companies.

www.casece.com