ČESKÉ VYSOKÉ UČENÍ TECHNICKÉ
FAKULTA STAVEBNÍ
Katedra technologie staveb

DIPLOMOVÁ PRÁCE
PROBLEMATIKA ROBOTICKÉHO
ZDĚNÍ

G.5 TECHNICKÝ LIST
CAT 262C

2019 Bc. František Kott

Vedoucí diplomové práce: Ing. Karel Polák, PhD.
FEATURES:
The Cat® 262C Skid Steer Loader, with its vertical lift design, delivers extended reach and lift height for quick and easy truck loading. Its stability and lifting performance provides excellent material handling.

The 262C features the following:
- **Sealed and pressurized cab option** provides a cleaner and quieter operating environment.
- **Seat mounted adjustable joystick controls and available air ride seat** make the C-Series the industry leader in operator comfort.
- **High performance power train** provides high engine horsepower and torque. Electronic Torque Management and standard foot throttle allow the machine to be operated at part throttle for lower sound levels and fuel consumption.

**Specifications**

<table>
<thead>
<tr>
<th>Engine</th>
<th>Engine Model</th>
<th>Cat® C3.4 DIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Power SAE J1995</td>
<td>63 kW</td>
<td>84 hp</td>
</tr>
<tr>
<td>Net Power SAE 1349</td>
<td>61 kW</td>
<td>82 hp</td>
</tr>
<tr>
<td>Displacement</td>
<td>3.3 L</td>
<td>201 in³</td>
</tr>
<tr>
<td>Stroke</td>
<td>120 mm</td>
<td>4.7 in</td>
</tr>
<tr>
<td>Bore</td>
<td>94 mm</td>
<td>3.7 in</td>
</tr>
</tbody>
</table>

**Weights**

| Operating Weight | 3614 kg | 7,968 lb |

**Power Train**

<table>
<thead>
<tr>
<th>Travel Speed (Forward or Reverse):</th>
<th>One Speed</th>
<th>12.5 kph</th>
<th>7.7 mph</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two Speed Option</td>
<td>19.3 kph</td>
<td>12.0 mph</td>
<td></td>
</tr>
<tr>
<td>XDP Option Speed (with tires)</td>
<td>10.4 kph</td>
<td>6.5 mph</td>
<td></td>
</tr>
<tr>
<td>XDP Option Speed (with VTS tracks)</td>
<td>7.8 kph</td>
<td>4.8 mph</td>
<td></td>
</tr>
</tbody>
</table>

**Hydraulic System**

<table>
<thead>
<tr>
<th>Hydraulic Flow – Standard:</th>
<th>Loader Hydraulic Pressure</th>
<th>23 000 kPa</th>
<th>3,335 psi</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Loader Hydraulic Flow</td>
<td>84 L/min</td>
<td>22 gal/min</td>
</tr>
<tr>
<td></td>
<td>Hydraulic Power</td>
<td>31.9 kW</td>
<td>42.8 hp</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hydraulic Flow – High Flow XPS:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Loader Hydraulic Pressure</td>
<td>28 000 kPa</td>
<td>4,061 psi</td>
</tr>
<tr>
<td>Max. Loader Hydraulic Flow</td>
<td>125 L/min</td>
<td>33 gal/min</td>
</tr>
</tbody>
</table>

**Operating Specifications**

<table>
<thead>
<tr>
<th>Rated Operating Capacity</th>
<th>1225 kg</th>
<th>2,700 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>with Optional Counterweight</td>
<td>1336 kg</td>
<td>2,945 lb</td>
</tr>
<tr>
<td>Tipping Load</td>
<td>2449 kg</td>
<td>5,400 lb</td>
</tr>
<tr>
<td>Breakout Force, Tilt Cylinder</td>
<td>3318 kg</td>
<td>7,315 lb</td>
</tr>
</tbody>
</table>

**Cab**

<table>
<thead>
<tr>
<th>ROPS</th>
<th>SAE J1040 MAY94, ISO 3471:1994</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOPS</td>
<td>SAE J1043 SEPT87, ISO 3449:1992 Level I</td>
</tr>
<tr>
<td>FOPS Level II</td>
<td>SAE J231 JAN81, ISO 3449:1992 Level II</td>
</tr>
</tbody>
</table>

**Service Refill Capacities**

<table>
<thead>
<tr>
<th>Chain Box, each side</th>
<th>10 L</th>
<th>2.6 gal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling System</td>
<td>14 L</td>
<td>3.7 gal</td>
</tr>
<tr>
<td>Engine Crankcase</td>
<td>10 L</td>
<td>2.6 gal</td>
</tr>
<tr>
<td>Fuel Tank</td>
<td>98 L</td>
<td>26 gal</td>
</tr>
<tr>
<td>Hydraulic System</td>
<td>57 L</td>
<td>15 gal</td>
</tr>
<tr>
<td>Hydraulic Tank</td>
<td>42 L</td>
<td>11 gal</td>
</tr>
</tbody>
</table>
262C Skid Steer Loader

Dimensions

1. Wheelbase 1240 mm 48.8 in  
2. Length w/o Bucket 2979 mm 117.0 in  
3. Length w/Bucket on Ground 3692 mm 145 in  
4. Height to Top of Cab 2104 mm 82.8 in  
5. Max. Overall Height 4075 mm 160.4 in  
6. Bucket Pin Height at Max. Lift 3233 mm 127 in  
7. Bucket Pin Height at Carry Position 200 mm 7.8 in  
8. Reach at Max. Lift and Dump 781 mm 30.7 in  
9. Clearance at Max. Lift and Dump 2450 mm 96.4 in  
10. Ground Clearance 225 mm 8.8 in  
11. Departure Angle 26°  
12. Bumper Overhang Behind Rear Axle 1089 mm 42.8 in  
13. Maximum Dump Angle 50°  
14. Vehicle Width over Tires 1676 mm 66 in  
15. Turning Radius from Center – Machine Rear 1730 mm 68.1 in  
16. Turning Radius from Center – Coupler 1386 mm 54.6 in  
17. Turning Radius from Center – Bucket 2167 mm 85.3 in  
18. Max. Reach w/Arms Parallel to Ground 1283 mm 50.5 in  
19. Rack Back Angle at Max. Height 85°  
20. Bucket Pin Reach at Max. Lift 373 mm 14.7 in

MANDATORY EQUIPMENT

- Hydraulics, Standard or High Flow XPS
- Quick Coupler, Mechanical or Hydraulic
- Seat Belt, 50 mm (2 in) or 75 mm (3 in)

COMFORT PACKAGE (must select one of the following)

- Open ROPS (C1): Cup Holder, Radio Ready, Suspension Seat, (No Heater or Door)
- Enclosed ROPS with Heat (C2): Cup Holder, Radio Ready, Seat (choice of Suspension or Air Ride), Heater and Defroster, Side Windows, Door (either Glass or Polycarbonate)
- Enclosed ROPS with A/C (C3): C2 + Air Conditioner

PERFORMANCE PACKAGE (must select one of the following)

- Performance Package 1: One Speed
- Performance Package 2: One Speed, Self Level
- Performance Package 3: Two Speed, Self Level
- Performance Package 4: Two Speed, Self Level, Ride Control, Advanced Machine Information and Control System (AMICS)

STANDARD EQUIPMENT

ELECTRICAL

- 12 volt Electrical System
- 90 ampere Alternator
- Ignition Key Start/Stop Switch
- Lights: Gauge Backlighting, Two Rear Tail Lights, Two Rear Working Lights, Two Adjustable Front Halogen Lights, Dome Light
- Backup Alarm
- Heavy Duty Battery, 850 CCA

OPERATOR ENVIRONMENT

- Gauges: Fuel Level, Hour Meter
- Operator Warning System Indicators: Air Filter Restriction, Alternator Output, Armrest Raised/Operator Out of Seat, Engine Coolant Temperature, Engine Oil Pressure, Glow Plug Activation, Hydraulic Filter Restriction, Hydraulic Oil Temperature, Park Brake Engages
- Vinyl Seat
- Fold in Ergonomic Contoured Armrest
- Control Interlock System, when operator leaves seat or armrest raised: Hydraulic System Disables, Hydrostatic Transmission Disables, Parking Brake Engages
- ROPS Cab, Open, Tilt Up
- FOPS, Level I
- Top and Rear Windows
- Headliner, Deluxe
- Floor Mat
- Interior Rear View Mirror
- 12 volt Electric Socket
- Horn

POWER TRAIN

- Cat® C3.4 DIT Tier 3 Compliant Diesel Engine
- Air Cleaner, Dual Element, Radial Seal
- S-O-S™ Sampling Valves, Engine Oil and Hydraulic Oil
- Filters, Spin-on, Hydraulic
- Filters, Bayonet-type, Fuel and Water Separator
- Tilt Up Radiator/Hydraulic Oil Cooler
- Spring Applied, Hydraulically Released, Wet Multi Disc Parking Brakes
- Hydrostatic Transmission
- Four Wheel Chain Drive

OTHER

- Engine Enclosure, Lockable
- Extended Life Antifreeze, –37° C (–34° F)
- Machine Tie Down Points (4)
- Support, Lift Arm
- Hydraulic Oil Level Sight Gauge
- Radiator Coolant Level Sight Gauge
- Radiator, Expansion Bottle
- Caterpillar ToughGuard™ Hose
- Auxiliary, Hydraulics, Continuous Flow
- Heavy Duty, Flat Faced Quick Disconnects
- Split D-Ring to Route Work Tool Hoses Along Side of Left Lift Arm
- Electrical Outlet, Beacon
- Belly Pan Cleanout

OPTIONAL ATTACHMENTS

- Counterweight
- Beacon, Rotating
- Engine Block Heater – 120V or 240V
- Oil, Hydraulic, Cold Operation
- Paint, Custom
- Extreme Duty Power Train (XDP)

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