



# MEDIUM HYDRAULIC EXCAVATOR 320, 320 GC, 323 PARTS REFERENCE GUIDE

SERIAL NUMBER PREFIXES: ZBN, DKJ, YBL, RAZ

**LET'S DO THE WORK.™**




# PROTECT YOUR INVESTMENT WITH GENUINE CAT® PARTS

Thank you for selecting the Cat® Medium Hydraulic Excavator.

This guide is designed to provide you with a quick reference for the parts and part numbers you need to keep your Cat medium hydraulic excavator running at peak efficiency. Always read and understand the machine's Operation and Maintenance Manual prior to performing any type of maintenance.


### MAINTENANCE

Proactive preventative maintenance extends the life of your machine and protects your investment. Only Caterpillar knows Cat equipment's filtration and lubrication requirements and offers parts kits to match your machine's maintenance cycles.

| SCHEDULED MAINTENANCE PARTS  |                            |
|--|----------------------------|
|  | <b>GREASES</b>             |
|  | <b>PLANNED MAINTENANCE</b> |

### REPLACEMENT PARTS

Proper maintenance minimizes the need for repair and replacement. In the event that replacement parts are required, the use of genuine Cat parts helps maximize machine performance and maintains high resale value. Other parts may not meet certain original equipment specifications.

| REPAIR PARTS   |                     |
|--|---------------------|
|  | <b>SHIMS</b>        |
|  | <b>CAB GLASS</b>    |
|  | <b>MIRRORS</b>      |
|  | <b>LIGHTS</b>       |
|  | <b>ENGINE PARTS</b> |
|  | <b>BATTERY</b>      |

### GREASES

|                              | STANDARD MAINTENANCE GREASES     |                                  |                              |
|------------------------------|----------------------------------|----------------------------------|------------------------------|
| Previous Cat Product Name    | Cat Ultra5 Moly #1               | Cat Ultra5 Moly #2               | Cat Advanced 3 Moly          |
| Current Cat Product Name     | Cat Extreme Application Grease 1 | Cat Extreme Application Grease 2 | Cat Prime Application Grease |
| Grade (NLGI)                 | 1                                | 2                                | 2                            |
| Melting Point C° (F°)        | 260 (500)                        | 260 (500)                        | 260 (500)                    |
| Ambient Temperature C° (F°)  | -35 to +40 (-31 to +104)         | 30 to +50 (-22 to +122)          | -20 to +40 (-4 to +104)      |
| Base Oil Type                | Mineral                          | Mineral                          | Mineral                      |
| Color                        | Dark Grey                        | Dark Grey                        | Dark Grey                    |
| Cartridge (390 g / 14 oz)    | 452-5996                         | 452-6001                         | 452-6006                     |
| Plastic Pail (5 kg / 11 lb)  | -                                | -                                | -                            |
| Plastic Pail (16 kg / 35 lb) | 452-5999                         | 452-6004                         | 452-6009                     |
| Keg (55 kg / 120 lb)         | 452-5998                         | 452-6003                         | 452-6008                     |
| Drum (180 kg / 400 lb)       | 452-5997                         | 452-6002                         | 452-6007                     |



| GREASES FOR UNIQUE APPLICATIONS AND ENVIRONMENTS |   |                          |  |
|--|---|--------------------------|--|
| Cat Arctic Platinum                              | Cat Desert Gold                         | Cat Multipurpose         | Hammer Paste                               |
| Cat Extreme Application Grease - Arctic          | Cat Extreme Application Grease - Desert | Cat Utility Grease       |  |
| 0  | 2                                       | 2                        | 2  |
| 230 (446)  | 280 (536)                               | 260 (500)                | 230 (446)                                  |
| -35 to +40 (-31 to +104)                         | 30 to +50 (-22 to +122)                 | -30 to +40 (-22 to +104) | -20 to +1100 (-4 to +2012)                 |
| Semi-Synthetic                                   | Mineral                                 | Mineral                  | Mineral                                    |
| Dark Grey  | Dark Grey                               | Blue                     | Bronze                                     |
| 508-2184   | 452-6016                                | 452-6011                 | 130-6951 (standard)<br>317-8491 (autolube) |
| -  | -                                       | -                        | 133-8807                                   |
| 508-2187   | 452-6019                                | 452-6014                 | -  |
| 508-2186   | 452-6018                                | 452-6013                 | -  |
| 508-2185   | 452-6017                                | 452-6012                 | -  |



# PLANNED MAINTENANCE

| HYDRAULIC EXCAVATORS |                      | WHEN NEEDED      |                 |                   |                   |                       |                   |                   |                             |                |             |   |                  |   |
|----------------------|----------------------|------------------|-----------------|-------------------|-------------------|-----------------------|-------------------|-------------------|-----------------------------|----------------|-------------|---|------------------|---|
|                      |                      | Engine Crankcase | Air Filter      |                   | Cabin Air         |                       | AC Receiver Dryer | Lubricate Machine | Hydraulic Oil/Filter Change |                |             |   | Hydraulic Tank   | Drive Chain Oil                               |
| Sales Model          | Serial Number Prefix | Breather Element | Primary Element | Secondary Element | Fresh Air Element | Recirculating Element | Accumulator Group | Grease Adv 3Moly  | Filter Element              | Seal (Housing) | Seal (Plug) | Oil Quantity - Liter (Gallon) Hydo Adv 10 | Breather Element | Oil Quantity - Liter (Gallon) TDTO-TMS (each) |
| 320GC                | DKJ                  | 339-1048         | 479-8989        | 479-8991          | 488-6446          | 500-0957              | 176-1902          | 452-6006          | 491-5241                    | 145-3576       | 175-6176    | 240 (63)                                  | 522-1451         | 6 (1.6)                                       |
| 320                  | ZBN                  | 339-1048         | 479-8989        | 479-8991          | 488-6446          | 500-0957              | 176-1902          | 452-6006          | 491-5241                    | 145-3576       | 175-6176    | 240 (63)                                  | 522-1451         | 6 (1.6)                                       |
| 323                  | YBL                  | 339-1048         | 479-8989        | 479-8991          | 488-6446          | 500-0957              | 176-1902          | 452-6006          | 491-5241                    | 145-3576       | 175-6176    | 240 (63)                                  | 522-1451         | 6 (1.6)                                       |
|                      | RAZ                  | –                | 479-8989        | 479-8991          | 488-6446          | 500-0957              | 176-1902          | 452-6006          | 491-5241                    | 145-3576       | 175-6176    | 240 (63)                                  | 522-1451         | 6 (1.6)                                       |

| HYDRAULIC EXCAVATORS |                      | EVERY 500 HOURS          |  |                    |                 |                   |                  |                 | EVERY 1,000 HOURS        |  |                    |                   |                   | EVERY 2,000 HOURS |                          |  |                 |                   |                    |                 |                |
|----------------------|----------------------|--------------------------|--|--------------------|-----------------|-------------------|------------------|-----------------|--------------------------|--|--------------------|-------------------|-------------------|-------------------|--------------------------|--|-----------------|-------------------|--------------------|-----------------|----------------|
|                      |                      | Engine Oil/Filter Change |  | Fuel Filter Change |                 | Lubricate Machine | Hydraulic Tank   | Water Separator | Engine Oil/Filter Change |  | Fuel Filter Change |                   | Lubricate Machine | Belt              | Engine Oil/Filter Change |  | Air Filter      |                   | Fuel Filter Change |                 | Filter         |
| Sales Model          | Serial Number Prefix | Filter                   | Oil Quantity - Liter (Gallon) DEO-ULS™ | In-line Element    | Primary Element | Grease Adv 3Moly  | Breather Element | Element         | Filter Element           | Oil Quantity - Liter (Gallon) DEO-ULS™ | In-line Element    | Secondary Element | Grease Adv 3Moly  | Serpentine Belt   | Filter                   | Oil Quantity - Liter (Gallon) DEO-ULS™ | Primary Element | Secondary Element | In-line Element    | Primary Element | Fumes Disposal |
| 320GC                | DKJ                  | 322-3155                 | 15 (4)                                 | 421-9625           | 360-8960        | 452-6006          | 339-1048         | 438-5386        | 322-3155                 | 15 (4)                                 | 421-9625           | 360-8960          | 452-6006          | 289-2358          | 322-3155                 | 15 (4)                                 | 479-8989        | 479-8991          | 421-9625           | 360-8960        | 339-1048       |
| 320                  | ZBN                  | 322-3155                 | 15 (4)                                 | 421-9625           | 360-8960        | 452-6006          | 339-1048         | 438-5386        | 322-3155                 | 15 (4)                                 | 421-9625           | 360-8960          | 452-6006          | 289-2358          | 322-3155                 | 15 (4)                                 | 479-8989        | 479-8991          | 421-9625           | 360-8960        | 339-1048       |
| 323                  | YBL                  | 322-3155                 | 15 (4)                                 | 421-9625           | 360-8960        | 452-6006          | 339-1048         | 438-5386        | 322-3155                 | 15 (4)                                 | 421-9625           | 360-8960          | 452-6006          | 350-8742          | 322-3155                 | 15 (4)                                 | 479-8989        | 479-8991          | 421-9625           | 360-8960        | 339-1048       |
|                      | RAZ                  | 322-3155                 | 15 (4)                                 | –                  | 360-8960        | 452-6006          | –                | 479-4131        | 322-3155                 | 15 (4)                                 | –                  | 360-8960          | 452-6006          | 350-8742          | 322-3155                 | 15 (4)                                 | 479-8989        | 479-8991          | –                  | 360-8960        | –              |

## SHIMS

| Description                 | Part Number |
|-----------------------------|-------------|
| PT1 (PIN OD 90) 0.5 mm      | 308-8775    |
| PT1 (PIN OD 90) 1.0 mm      | 308-8776    |
| PT1 (PIN OD 90) 2.0 mm      | 308-8777    |
| PT1 (PIN OD 90) 2.0 mm      | 212-2838    |
| PT2-PT12 (PIN OD 70) 0.5 mm | 133-2424    |
| PT2-PT12 (PIN OD 70) 1.0 mm | 093-0086    |
| PT2-PT12 (PIN OD 70) 2.0 mm | 093-0118    |
| PT2-PT12 (PIN OD 70) 2.0 mm | 166-1482    |
| PT2-PT12 (PIN OD 80) 0.5 mm | 133-2425    |
| PT2-PT12 (PIN OD 80) 1.0 mm | 093-0083    |
| PT2-PT12 (PIN OD 80) 2.0 mm | 093-0115    |
| PT2-PT12 (PIN OD 80) 2.0 mm | 166-1486    |
| PT2-PT12 (PIN OD 90) 0.5 mm | 113-2127    |
| PT2-PT12 (PIN OD 90) 1.0 mm | 093-0084    |
| PT2-PT12 (PIN OD 90) 2.0 mm | 093-0116    |
| PT2-PT12 (PIN OD 90) 2.0 mm | 166-1487    |

## CAB GLASS

| Description           | Part Number |
|-----------------------|-------------|
| Left Rear Glass       | 486-5426    |
| Right Side Glass      | 486-5427    |
| Rear Cab Glass        | 516-4875    |
| Front Upper Glass     | 486-5450    |
| Front Lower Glass     | 491-7724    |
| One-Piece Front Glass | 486-5437    |
| Cab Door Glass        | 538-8843    |
| Ceiling Cab Glass     | 489-3972    |



## MIRRORS

| Description                            | Part Number |
|--|-------------|
| Mirror                                 | 394-9460    |
| Mirror (ISO5006 for use without Guard) | 327-6552    |



## LIGHTS

| Description              | Part Number |
|--------------------------|-------------|
| 850 LM Wide              | 524-8521    |
| 1200 LM Wide             | 524-8522    |
| 850 LM Wide/Set Bracket  | 526-4904    |
| 1200 LM Wide/Set Bracket | 526-4905    |

# ENGINE PARTS

| Sales Model | Description                               | Starter Motor | Alternator | Water Pump Kit | Fuel Pump | Fuel Injector | Turbocharger | Turbocharger (low pressure) | Turbocharger (high pressure) |
|-------------|---|---------------|------------|----------------|-----------|---------------|--------------|-----------------------------|------------------------------|
| 320GC       | Regions with Lesser Emissions Regulations | 432-1691      | 344-5081   | 397-5684       | 375-2647  | 449-3315      | 482-0234     | –                           | –                            |
|             | Regions with Higher Emissions Regulations | 432-1691      | 344-5081   | 397-5684       | 370-8364  | 418-3229      | –            | 450-1871                    | –                            |
| 320         | Regions with Lesser Emissions Regulations | 488-2807      | 344-5081   | 397-5684       | 375-2647  | 371-3974      | 315-9810     | –                           | –                            |
|             | Regions with Higher Emissions Regulations | 432-1691      | 344-5081   | 397-5684       | 370-8364  | 370-7280      | –            | 421-3007                    | 443-0314                     |
| 323         | Regions with Lesser Emissions Regulations | 488-2807      | 352-4700   | 397-5684       | 375-2647  | 371-3974      | 315-9810     | –                           | –                            |
|             | Regions with Higher Emissions Regulations | 488-2807      | 352-4700   | 397-5684       | 368-9041  | 370-7282      | –            | 479-5820                    | –                            |

# BATTERY

| Part Number | Voltage | CCA (amps) | Capacity (AH) | Type | Length mm (inch) | Width mm (inch) | Total Height mm (in) |
|-------------|---------|------------|---------------|------|------------------|-----------------|----------------------|
| 115-2422    | 12      | 1000       | 90            | Wet  | 323.7 (12.7)     | 157.5 (6.2)     | 240.3 (9.5)          |

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