



# Clevite® Heavy Duty Replacement Engine Parts† for Caterpillar® 3300 Series

| Clevite No.  | Description                   | Sub Model | Notes   | Interchange References         |
|--------------|-------------------------------|-----------|---|--------------------------------|
| MS-1113AL    | Main Bearing Set              | 3304      |   | 2323233(5)                     |
| MS-1113AL-10 | Main Bearing Set              | 3304      |   | 3148652(5)                     |
| MS-1113AL-20 | Main Bearing Set              | 3304      |   | 8N8226(5)                      |
| MS-1113AL-30 | Main Bearing Set              | 3304      |   | 8N8227(5)                      |
| MS-1114AL    | Main Bearing Set              | 3306      | OE Reference 1969534 includes thrust  | 2323233(7) / 1969534           |
| MS-1114AL-10 | Main Bearing Set              | 3306      |   | 3148652(7)                     |
| MS-1114AL-20 | Main Bearing Set              | 3306      |   | 8N8226(7)                      |
| MS-1114AL-30 | Main Bearing Set              | 3306      |   | 8N8227(7)                      |
| MB-3451W     | Thrust Washer, Individual     | 3300      | .215 Length   | 1003652                        |
| 223-3643     | Bushing, Piston Pin           | 3300      |   | 8N1849                         |
| 211-4270     | Valve, Intake                 | 3300      | 2V, 2.020" head, 5.350" Lth., 0.3717" Stem, 30 Degree, 2G, Small Margin Valve, Stellite | 1007860                        |
| 211-4271     | Valve, Exhaust                | 3300      | 2V, 1.896" head, 5.285" Lth., 0.3717" Stem, 30 Degree, 2G, Small Margin Valve, Stellite | 1487455                        |
| 223-1829     | Piston Pin                    | 3300      | 1.500" Dia.   | 7N9804                         |
| 223-1835     | Piston Pin                    | 3300      | 1.700" Dia.   | 7N9805                         |
| 223-3599     | Cylinder Block Repair Bushing | 3300      |   | N / A                          |
| 223-5502     | Lock Rings                    | 3300      | Price each, two in package  | 1S9543                         |
| 223-5503     | Lock Rings                    | 3300      | Price each, two in package  | 9H4015                         |
| 223-7188     | O Ring Kit                    | 3300      |   | 5P8768 / 2W6134(3) + 5S6670(1) |
| 224-3034     | Piston                        | 3300 PC   | 15.0:1 CR, Dual Ni, Rectangular Ring, 1.700" Pin, With pin & locks ,                    | 9N5250WP / OR1694              |
| 224-3034X    | Bare Piston                   | 3300 PC   | 15.0:1 CR, Dual Ni, Rectangular Ring, 1.700" Pin, Without pin & locks, OR1694           | 9N5250 / OR1694                |
| 224-3251     | Piston with pin               | 3300 PC   | With pin & locks , 1.700" Pin, Keystone, Dual Ni, OR1695                                | 9N5403WP / OR1695              |
| 224-3251X    | Bare Piston                   | 3300 PC   | Without pin & locks, 1.700" Pin, Keystone, Dual Ni, OR1695                              | 9N5403 / OR1695                |
| 224-3270     | Piston with pin               | 3300 SI   | 8.0:1 CR, With pin & locks  | 4P2655WP / OR3663              |
| 224-3270X    | Bare Piston                   | 3300 SI   | 8.0:1 CR, Without pin & locks   | 4P2655 / OR3662                |
| 224-3271     | Piston with pin               | 3300 SI   | 10.5:1 CR, With pin & locks   | 4P2654WP / OR3661              |
| 224-3271X    | Bare Piston                   | 3300 SI   | 10.5:1 CR, Without pin & locks  | 4P2654 / OR3661                |
| 224-3297     | Piston                        | 3300 DI   | 15.0:1 CR With pin & locks  | 1290358WP / OR1696             |

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| 224-3297X   | Bare Piston         | 3300 DI   | 15.0:1, Without pin & locks   | 1290358 / OR1696                                       |
| 224-3368    | Piston              | 3300 DI   | 15.0:1 CR, 1.700" Pin, 4mm / .156" Oil Ring, With pin & locks,          | 1654262WP / OR1697                                     |
| 224-3368X   | Bare Piston         | 3300 DI   | 15.0:1 CR, 1.700" Pin, 4mm / .156" Oil Ring, Without pin & locks,       | 1654262 / OR1697                                       |
| 224-3369    | Piston              | 3300 PC   | With pin & locks, Dual Ni, 1.500" Pin, Dual-Ni, 4mm / .156" Oil Ring    | 8N3182WP / OR1692                                      |
| 224-3369X   | Bare Piston         | 3300 PC   | Without pin & locks, Dual Ni, 1.500" Pin, Dual-Ni, 4mm / .156" Oil Ring | 8N3182 / OR1692  |
| 224-3395    | Piston              | 3306 DI   | 17.0:1 CR, Keystone   | 1073565WP / OR4635                                     |
| 224-3395X   | Bare Piston         | 3306 DI   | 17.0:1 CR, Keystone   | 1073565 / OR4635                                       |
| 224-3396    | Piston              | 3306 DI   | 17.0:1 CR, Keystone, 1.700" Pin, 4mm Oil Ring, With pin & locks         | 1548087WP / OR4506                                     |
| 224-3396X   | Bare Piston         | 3306 DI   | 17.0:1 CR, Keystone, 1.700" Pin, 4mm Oil Ring, Without pin & locks      | 1548087 / OR4506                                       |
| 226-1695    | Cylinder Kit        | 3300 PC   | 15.0:1 CR, Dual Ni, Rectangular Ring, 1.700" Pin                        | 9N5250 + 1105800 / LK5250 / OR1694                     |
| 226-1861    | Cylinder Kit        | 3300 SI   | 10.5:1 CR, Natural Gas  | 4P2654 + 1105800 / LK2654 / OR3661                     |
| 226-1882    | Cylinder Kit        | 3300 PC   | 1.700" Pin, Dual Ni, Keystone Ring                                      | 9N5403 + 1105800 / LK5403 / OR1695                     |
| 226-1889    | Cylinder Kit        | 3300 DI   | 15.0:1 CR, Tapered Rod, Rectangular Ring                                | 1290358 + 1105800 / LK1290358 / OR1696                 |
| 226-1890    | Cylinder Kit        | 3306 DI   | 16.0:1 CR, 1.700" Pin, 3mm Oil Ring                                     | 9Y8217 / 1568262 + 1105800 / LK1684531 / OR3043        |
| 226-1895    | Cylinder Kit        | 3300 SI   | 8.0:1, Natural gas  | 4P2655 + 1105800 / LK2655 / OR3662                     |
| 226-1967    | Cylinder Kit        | 3300 PC   | Dual Ni, 1.500" Pin, Dual-Ni, 4mm Oil Ring                              | 8N3182 + 1105800 / 2704353 / 2506556 / LK3182 / OR1692 |
| 226-1968    | Cylinder Kit        | 3300 DI   | 15.0:1 CR, 1.700" Pin, Keystone Ring, 4mm Oil ring                      | 1654262 + 1105800 / LK1654262 / 2704353 / OR1697       |
| 226-1974    | Cylinder Kit        | 3306 DI   | 17.0:1 CR, ATAAC, Keystone, 285-305HP,                                  | 1074565 + 1105800 / OR4635                             |
| 226-1975    | Cylinder Kit        | 3306 DI   | 17.0:1 CR, 1.700" Pin   | 1548087 + 1105800 / OR4506                             |
| 226-1988    | Cylinder Kit        | 3306 DI   | 16.0:1 CR, 1.700" Pin, 4mm Oil Ring                                     | 1684531 + 1105800 / OR3043                             |
| 226-4493    | Cylinder Liner      | 3300      | With seals  | 1105800WS  |
| 226-4493X   | Bare Cylinder Liner | 3300      | Without seals   | 1105800  |
| 229-1831    | Camshaft            | 3306      |   | 7C3864 / OR3023  |

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|-------------|--------------------------|-----------|--------------------------|--|
| 229-2189    | Camshaft                 | 3304      |                          | 9Y1723 / OR3022  |
| 247-5050    | Crankshaft               | 3306      | Without gear             | 2423439WOG   |
| 247-5067    | Crankshaft               | 3304      | Without gear, Short nose | 4N7692 / 2423440   |
| 247-5217    | Crankshaft               | 3304      | With gear, Short nose    | 4N7692   |
| 247-5218    | Crankshaft               | 3306      | With gear                | 2423439WG  |
| S40963      | Single Cylinder Ring Set | 3300      | .219" / 5.5MM Oil Ring   | 9S3068 / Top<br>9S3029(1) + Int.<br>5S6750(1) + Oil<br>9S7788(1) |
| S41653      | Single Cylinder Ring Set | 3300      | .118" / 3MM Oil Ring     | 2W6091 / Top<br>9S3029(1) + Int.<br>5S6750(1) + Oil<br>7E6047(1) |
| S41670      | Single Cylinder Ring Set | 3300      | Natural gas, 2 Ring      | Top 5S7570(1) + Oil<br>7E6047(1)                                 |
| S41841      | Single Cylinder Ring Set | 3300      | Natural gas, 2 Ring      | Top 4P2656(1) + Oil<br>4P2658(1)                                 |
| S41942      | Single Cylinder Ring Set | 3300      | 2 Keystone, 4mm Oil Ring | 2114321 / Top<br>2W1707(1), Int.<br>2W1708(1), Oil<br>6I0497(1), |
| S42054      | Single Cylinder Ring Set | 3300      | 2 Keystone, 4mm Oil Ring | Top 1006694(1), Int.<br>1006695(1), Oil 6I0497<br>(1)            |
| 456-1000    | H. D. Overhaul Kit       | 3306      | With 226-1967            | N / A  |
| 456-1001    | H. D. Overhaul Kit       | 3306      | With 226-1695            | N / A  |
| 456-1028    | H. D. Overhaul Kit       | 3306      | With 226-1968            | N / A  |
| 456-1037    | H. D. Overhaul Kit       | 3306      | With 226-1882            | N / A  |
| 456-1039    | H. D. Overhaul Kit       | 3306      | With 226-1890            | N / A  |
| 456-5000    | H. D. Inframe Kit        | 3306      | With 226-1967            | N / A  |
| 456-5001    | H. D. Inframe Kit        | 3306      | With 226-1695            | N / A  |
| 456-5028    | H. D. Inframe Kit        | 3306      | With 226-1968            | N / A  |
| 456-5037    | H. D. Inframe Kit        | 3306      | With 226-1882            | N / A  |
| 456-5039    | H. D. Inframe Kit        | 3306      | With 226-1890            | N / A  |
| 54100       | Gasket, Cylinder Head    | 3304      |                          | 4P8915   |
| 54163       | Gasket, Cylinder Head    | 3306      |                          | 1118015  |
| 54218       | Gasket, Cylinder Head    | 3304      |                          | 7N7386   |
| 54235       | Gasket, Cylinder Head    | 3306      |                          | 6N7263   |
| 67645       | Seal, Crankshaft         | 3300      |                          | 4W0452   |
| B45886      | Valve Stem Seal          | 3300      |                          | 6N7174   |
| CS4930      | Gasket Set, Lower        | 3306      | 63Z1-UP                  | 8C6715   |

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|-------------|-------------------------------|-----------|--|-----------------------------|
| CS4930A     | Gasket Set, Lower             | 3306      | 76R273-3473  | 5P9564                      |
| CS54100-1   | Gasket Set, Central & Lower   | 3304      |  | 6V5408                      |
| CS54100-2   | Gasket Set, Central & Lower   | 3304      |  | 6V0605                      |
| CS54100-3   | Gasket Set, Central & Lower   | 3304      |  | 8T9486                      |
| CS54100-4   | Gasket Set, Central & Lower   | 3304      |  | 6V4778 / 8C8432             |
| CS54100-5   | Gasket Set, Central & Lower   | 3304      |  | 1208883 / 1417274 / 1417953 |
| CS54163-1   | Gasket Set, Central & Lower   | 3306      |  | 1870605                     |
| CS54163-2   | Gasket Set, Central & Lower   | 3306      |  | 5P8767                      |
| CS54163-3   | Gasket Set, Central & Lower   | 3306      |  | 5P9099                      |
| CS54163-4   | Gasket Set, Central & Lower   | 3306      |  | 1873255                     |
| EK3531      | Gasket Set, Inframe Overhaul  | 3304      | Without deck plate   | 6V0602 + 6V0603             |
| EK3532      | Gasket Set, Inframe Overhaul  | 3304      | With deck plate  | 6V2209 + 6V2523 + 2348020   |
| FS4930      | Gasket Set, Overhaul-Full Set | 3306      | 63Z12478 & Up w / Spacer Plate (DI w / 63Z Pencil Injectors) | PGE0306                     |
| FS4967      | Gasket Set, Overhaul-Full Set | 3306      |  | PGE0301                     |
| HS4930B     | Gasket Kit, Cylinder Head Set | 3306      | 76R3474 Up   | 6V2525                      |
| HS4966      | Gasket Kit, Cylinder Head Set | 3306      | Counterbore Block  | PGE0303                     |
| HS54100-1   | Gasket Kit, Cylinder Head Set | 3304      |  | 6V2523                      |
| HS54100-2   | Gasket Kit, Cylinder Head Set | 3304      |  | 2348020                     |
| HS54100-4   | Gasket Kit, Cylinder Head Set | 3304      |  | 6V0602                      |
| HS54100-5   | Gasket Kit, Cylinder Head Set | 3304      |  | 6V2209                      |
| HS54100-6   | Gasket Kit, Cylinder Head Set | 3304      |  | 8T1606                      |
| HS54163-1   | Gasket Kit, Cylinder Head Set | 3306      |  | 1551380                     |
| HS54163-2   | Gasket Kit, Cylinder Head Set | 3306      |  | 9X2224                      |
| HS54163-3   | Gasket Kit, Cylinder Head Set | 3306      |  | 8T1622                      |
| HS54163-4   | Gasket Kit, Cylinder Head Set | 3306      |  | 2348021                     |
| HS54163-6   | Gasket Kit, Cylinder Head Set | 3306      |  | 5P8766                      |

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|--------------------|-------------------------------|------------------|--------------|-------------------------------|
| HS54163-7          | Gasket Kit, Cylinder Head Set | 3306             |              | 2348002                       |
| HS54163-8          | Gasket Kit, Cylinder Head Set | 3306             |              | 2347988                       |
| HS54163-9          | Gasket Kit, Cylinder Head Set | 3306             |              | 6V2527                        |
| HS54163-11         | Gasket Kit, Cylinder Head Set | 3306             |              | 3E7471                        |
| HS54163-12         | Gasket Kit, Cylinder Head Set | 3306             |              | 1551379                       |
| HS54218-1          | Gasket Kit, Cylinder Head Set | 3304             |              | 5P9414                        |
| HS54218-3          | Gasket Kit, Cylinder Head Set | 3304             |              | 6V0600                        |
| HS54235-2          | Gasket Kit, Cylinder Head Set | 3306             |              | 5P9098                        |
| HS54235-3          | Gasket Kit, Cylinder Head Set | 3306             |              | 6V0715                        |
| HS54235-4          | Gasket Kit, Cylinder Head Set | 3306             |              | 5P9561                        |
| HS54235-5          | Gasket Kit, Cylinder Head Set | 3306             |              | 6V2580                        |
| HS54235-6          | Gasket Kit, Cylinder Head Set | 3306             |              | 1749469                       |
| JV1686             | Gasket Set, Rear Structure    | 3300             |              | 1383069                       |
| JV1706             | Gasket Set, Rear Structure    | 3300             |              | 6V2982                        |
| JV1707             | Gasket Set, Rear Structure    | 3300             |              | 6V2983                        |
| JV1708             | Gasket Set, Rear Structure    | 3300             |              | 6V5976                        |
| JV1710             | Gasket Set, Rear Structure    | 3306             |              | 2801470                       |
| JV1711             | Gasket Set, Rear Structure    | 3306             |              | 8C8745                        |
| JV1712             | Gasket Set, Rear Structure    | 3306             |              | 8T2466                        |
| JV1713             | Gasket Set, Rear Structure    | 3300             |              | 1417278 / 8C8741              |
| JV1714             | Gasket Set, Rear Structure    | 3306             |              | 8C8744                        |
| JV5021             | Gasket Set, Front Structure   | 3304             |              | 6V2248                        |
| JV5115             | Gasket Set, Front Structure   | 3300             |              | 1402246                       |
| JV5116             | Gasket Set, Front Structure   | 3306             |              | 5P9100                        |
| JV5117             | Gasket Set, Front Structure   | 3300             |              | 6V1658                        |
| JV5118             | Gasket Set, Front Structure   | 3300             |              | 6V4763                        |
| JV5120             | Gasket Set, Front Structure   | 3300             |              | 1208998                       |
| JV5121             | Gasket Set, Front Structure   | 3300             |              | 1387720                       |
| JV5122             | Gasket Set, Front Structure   | 3300             |              | 6V1549                        |

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|-------------|-----------------------------|-----------|-----------------------------------|------------------------|
| JV5123      | Gasket Set, Front Structure | 3300      |                                   | 6V2466                 |
| JV5124      | Gasket Set, Front Structure | 3300      |                                   | 7X2833                 |
| JV5125      | Gasket Set, Front Structure | 3300      |                                   | 8T9485                 |
| JV5126      | Gasket Set, Front Structure | 3300      |                                   | 6V0611                 |
| JV5127      | Gasket Set, Front Structure | 3300      |                                   | 6V4785                 |
| JV5128      | Gasket Set, Front Structure | 3300      |                                   | 9X8563 / 8C5051        |
| OS32166     | Gasket Set, Oil Pan         | 3306      | Oil Pan Gasket Only               | 1694200                |
| OS32170     | Gasket Set, Oil Pan         | 3304      |                                   | 8S1963                 |
| OS32208     | Gasket Set, Oil Pan         | 3306      |                                   | 1694200S               |
| OS32224     | Gasket Set, Oil Pan         | 3300      | Segmented for both 4 & 6 Cylinder | 1694199                |
| OS32274     | Gasket Set, Oil Pan         | 3304      |                                   | 5S6045 / 8S1963        |
| OS32499     | Gasket Set, Oil Pan         | 3306      | 3306 63Z1-UP                      | N / A                  |
| OS32499A    | Gasket Set, Oil Pan         | 3306      | 3306 76R273-3473                  | N / A                  |
| VS50315     | Gasket Set, Valve Cover     | 3306      |                                   | 1331247                |

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