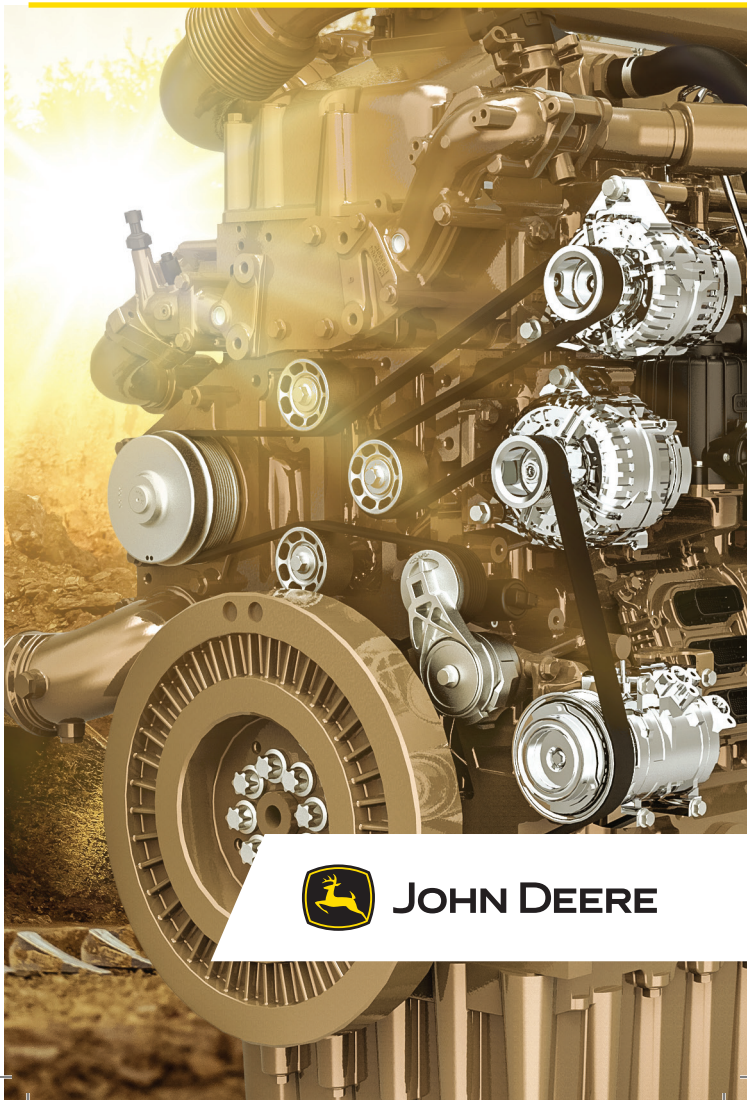


# Industrial Off-Highway Diesel Engines



**JOHN DEERE**

# A NEW ERA

## IN POWER

Equipment OEMs and operators have long trusted John Deere industrial engine power for reliable performance in the most demanding off-highway applications. That same heritage is carrying you confidently into a new era of technological innovation – with next generation engines designed from the ground up to meet evolving standards, and with advancements like John Deere Connected Support™ remote monitoring and diagnostics to help keep your operations moving forward.

### CONTENTS

|                                                  |    |
|--------------------------------------------------|----|
| The John Deere difference .....                  | 4  |
| Performance levels .....                         | 10 |
| Industrial Highly Regulated engines .....        | 12 |
| Industrial Low Regulated engines .....           | 42 |
| Emergency Stationary Low Regulated engines ..... | 70 |
| Service and support .....                        | 72 |
| Conversions .....                                | 78 |





# THE JOHN DEERE *DIFFERENCE*



## PROVEN PERFORMANCE



### Off-highway experience

John Deere has billions of hours of field experience with off-highway engine technologies. We use an exhaust system strategy that is designed to be transparent to the operator without impacting machine performance. Our proven aftertreatment solution has logged more than 3 billion hours of operation on thousands of internal and external OEM applications.



### Turbocharged power

John Deere engines deliver fast transient response and high peak torque thanks to tailored turbocharging technologies. We use a combination of wastegate, variable geometry, and series turbochargers to meet your application needs.



## RELIABLE UPTIME



### Day-to-day reliability

John Deere engines feature top-liner cooling, efficient lubrication, and robust cooling systems for reliable operation.



### Long-haul durability

John Deere engines are designed for rugged applications. Most models feature heavy-duty, oversized components, steel pistons, and wet-type cylinder liners for long engine life.



### Extreme performance

Engines are built to operate in hot and dry, subzero, and humid climates as well as high altitudes. The engine control unit (ECU) monitors and protects engine components in extreme conditions. In regions where fuel quality may vary, John Deere protects the engine with two-stage fuel filtration and water detection.

## EASY INTEGRATION



### Final Tier 4/Stage V solutions

No re-engineering or hardware changes are required. Most John Deere Final Tier 4/Stage V engines have the same engine envelope size and use the same mounting points as previous John Deere engines.



### Integration flexibility

With multiple parts options and various aftertreatment outlet and inlet choices, OEMs can integrate John Deere engines with minimal machine modifications. Easy configurability saves development costs and reduces delivery time to market.



# EFFICIENT OPERATION



## Fuel efficiency

The efficient design of the John Deere combustion chamber helps deliver excellent fuel economy.



## Less DEF

Cooled exhaust gas recirculation (EGR) enables the use of a smaller selective catalytic reduction (SCR) system and lower diesel exhaust fluid (DEF) consumption compared to non-EGR John Deere engines. John Deere engines with EGR use 1% to 3% less DEF compared to non-EGR engines.



## Low lifecycle costs

Reliable operation, low maintenance, long engine life, and exceptional fluid economy help lower the cost of operation with John Deere engines.



## Long service intervals

- ▶ Oil and fuel filters: up to 1,000 hours
- ▶ Coolant: up to 6,000 hours
- ▶ DEF filter (if applicable): up to 4,500 hours
- ▶ DPF (if applicable): up to 15,000 hours on select engines depending on duty cycle, load, and operating conditions





# PERFORMANCE *LEVELS*



## PREMIUM PERFORMANCE



Engines in the X-level offer powerful performance and exceptional fluid efficiency, providing OEM customers with power solutions capable of meeting the most demanding application needs. Advanced technologies offer greater reliability without sacrificing durability.

## ENHANCED PERFORMANCE



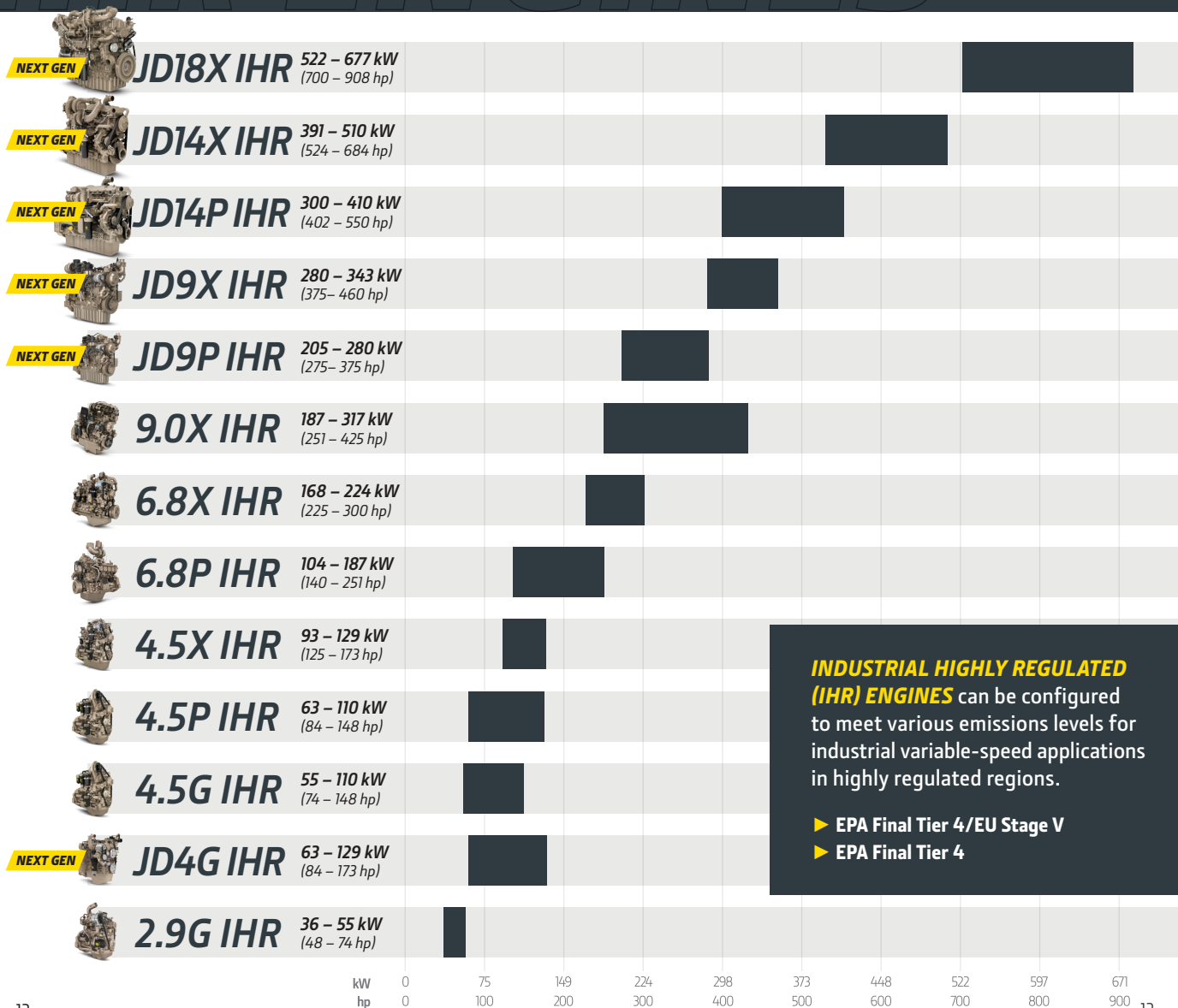
P-level engines offer OEM customers a balance of performance and cost to meet a variety of application needs. Enhanced engine calibration coupled with advanced combustion technologies and simple turbocharging make the P-level a reliable and durable power choice.

## RELIABLE PERFORMANCE



Our G-level engines offer OEM customers a cost-effective power solution for price-sensitive market applications. These reliable and powerful engines represent the time-tested, rugged heritage of John Deere.

# POWER RATINGS >>> INDUSTRIAL HIGHLY REGULATED ENGINES



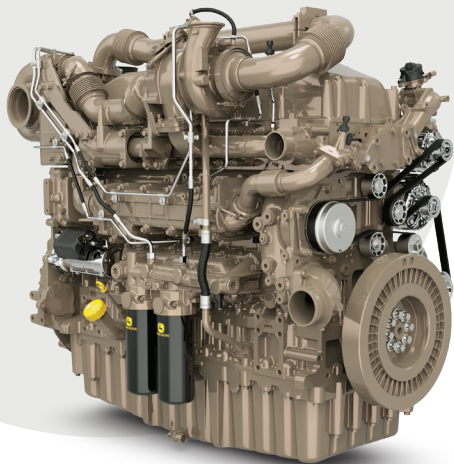


# SPECIFICATIONS >>> INDUSTRIAL HIGHLY REGULATED ENGINES

| ENGINE MODEL     | TYPE | DISPL. | VALVES  | TURBO  | EMISSIONS                   | POWER RATINGS               | EGR | DOC | DPF | SCR |
|------------------|------|--------|---------|--------|-----------------------------|-----------------------------|-----|-----|-----|-----|
| <b>JD18X IHR</b> | L6   | 18.0L  | 4-valve | Series | EPA Final Tier 4/EU Stage V | 522 – 677 kW (700 – 908 hp) | ■   | -   | -   | -   |
| <b>JD14X IHR</b> | L6   | 13.6L  | 4-valve | Series | EPA Final Tier 4/EU Stage V | 391 – 510 kW (524 – 684 hp) | ■   | ■   | ■   | ■   |
|                  |      |        |         |        | EPA Final Tier 4            | 391 – 510 kW (524 – 684 hp) | ■   | ■   | -   | ■   |
| <b>JD14P IHR</b> | L6   | 13.6L  | 4-valve | WGT    | EPA Final Tier 4/EU Stage V | 300 – 410 kW (402 – 550 hp) | ■   | ■   | ■   | ■   |
|                  |      |        |         |        | EPA Final Tier 4            | 300 – 410 kW (402 – 550 hp) | ■   | ■   | -   | ■   |
| <b>JD9X IHR</b>  | L6   | 9.0L   | 4-valve | Series | EPA Final Tier 4/EU Stage V | 280 – 343 kW (375 – 460 hp) | ■   | ■   | ■   | ■   |
| <b>JD9P IHR</b>  | L6   | 9.0L   | 4-valve | VGT    | EPA Final Tier 4/EU Stage V | 205 – 280 kW (275 – 375 hp) | ■   | ■   | ■   | ■   |
| <b>9.0X IHR</b>  | L6   | 9.0L   | 4-valve | Series | EPA Final Tier 4/EU Stage V | 187 – 317 kW (251 – 425 hp) | ■   | ■   | ■   | ■   |
| <b>6.8X IHR</b>  | L6   | 6.8L   | 4-valve | Series | EPA Final Tier 4/EU Stage V | 168 – 224 kW (225 – 300 hp) | ■   | ■   | ■   | ■   |
| <b>6.8P IHR</b>  | L6   | 6.8L   | 4-valve | VGT    | EPA Final Tier 4/EU Stage V | 104 – 187 kW (140 – 251 hp) | ■   | ■   | ■   | ■   |
| <b>4.5X IHR</b>  | L4   | 4.5L   | 4-valve | Series | EPA Final Tier 4/EU Stage V | 93 – 129 kW (125 – 173 hp)  | ■   | ■   | ■   | ■   |
|                  |      |        |         |        | EPA Final Tier 4            | 93 – 129 kW (125 – 173 hp)  | ■   | ■   | -   | ■   |
| <b>4.5P IHR</b>  | L4   | 4.5L   | 4-valve | WGT    | EPA Final Tier 4/EU Stage V | 74 – 104 kW (99 – 140 hp)   | ■   | ■   | ■   | ■   |
|                  |      |        |         |        | EPA Final Tier 4            | 63 – 110 kW (84 – 148 hp)   | ■   | ■   | -   | ■   |
| <b>4.5G IHR</b>  | L4   | 4.5L   | 2-valve | WGT    | EPA Final Tier 4/EU Stage V | 74 – 110 kW (99 – 148 hp)   | -   | ■   | ■   | ■   |
|                  |      |        |         |        | EPA Final Tier 4            | 74 – 110 kW (99 – 148 hp)   | -   | ■   | -   | ■   |
|                  |      |        |         |        | EPA Final Tier 4/EU Stage V | 55 kW (74 hp)               | -   | ■   | ■   | -   |
| <b>JD4G IHR</b>  | L4   | 3.9L   | 2-valve | WGT    | EPA Final Tier 4/EU Stage V | 63 – 129 kW (84 – 173 hp)   | -   | ■   | ■   | ■   |
| <b>2.9G IHR</b>  | L3   | 2.9L   | 2-valve | WGT    | EPA Final Tier 4/EU Stage V | 36 – 55 kW (48 – 74 hp)     | -   | ■   | ■   | -   |

# JD18X IHR **NEXT GEN**

INDUSTRIAL HIGHLY REGULATED ENGINES



Base Machine Code: 4070RG

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 6-cylinder, In-line, 4-valve |
| DISPLACEMENT | 18.0L                        |
| POWER RANGE  | 522 – 677 kW (700 – 908 hp)  |
| EMISSIONS    | EPA Final Tier 4/EU Stage V  |
| TURBOCHARGER | Series                       |
| EGR          | External cooled EGR          |

| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 1750           | 69 | 920   | 36 | 1507   | 59 | 2119   | 4672 |

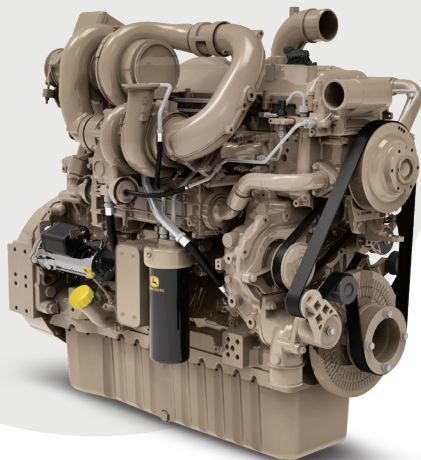
| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | EMISSIONS TECHNOLOGY |     |     |     | EXHAUST CANISTER SIZE |   |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|----------------------|-----|-----|-----|-----------------------|---|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | EGR                  | DOC | DPF | SCR | -                     | - |
| EPA Final Tier 4/EU Stage V |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |   |
| 522                         | 700 | 1900 | 572        | 767 | 1700 | 10%         | 3317        | 2448  | 1400 | ■                    | -   | -   | -   | -                     | - |
| 560                         | 751 | 1900 | 600        | 805 | 1700 | 7%          | 3675        | 2712  | 1400 | ■                    | -   | -   | -   | -                     | - |
| 600                         | 805 | 1900 | 640        | 858 | 1700 | 7%          | 3873        | 2858  | 1400 | ■                    | -   | -   | -   | -                     | - |
| 640                         | 858 | 1900 | 660        | 885 | 1700 | 3%          | 4070        | 3004  | 1400 | ■                    | -   | -   | -   | -                     | - |
| 677                         | 908 | 1900 | 677        | 908 | 1700 | 0%          | 4250        | 3137  | 1400 | ■                    | -   | -   | -   | -                     | - |





# JD14X IHR **NEXT GEN**

INDUSTRIAL HIGHLY REGULATED ENGINES

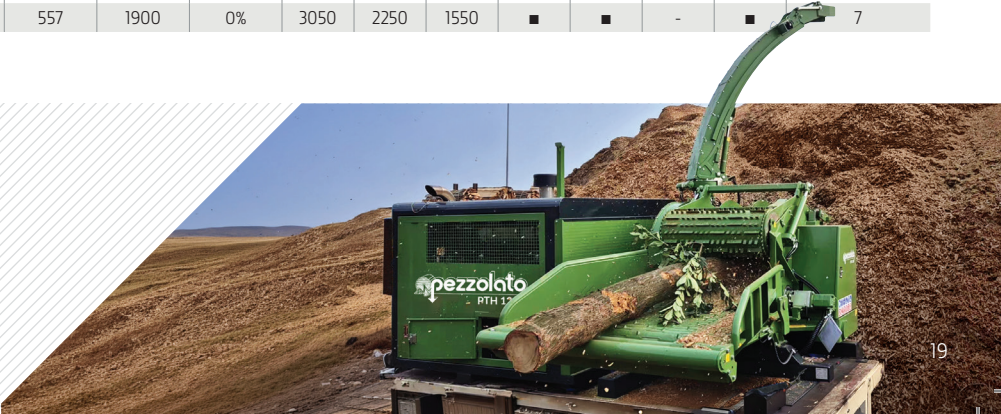


Base Machine Code: 4000RG

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 6-cylinder, In-line, 4-valve |
| DISPLACEMENT | 13.6L                        |
| POWER RANGE  | 391 – 510 kW (524 – 684 hp)  |
| EMISSIONS    | EPA Final Tier 4/EU Stage V  |
| TURBOCHARGER | Series                       |
| EGR          | External cooled EGR          |

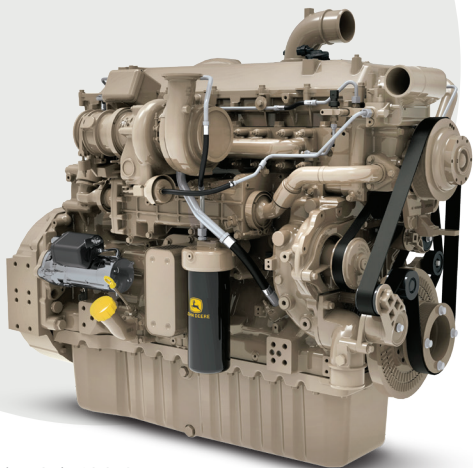
| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 1498           | 59 | 890   | 35 | 1367   | 54 | 1521   | 3353 |

| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | EMISSIONS TECHNOLOGY |     |     |     | EXHAUST CANISTER SIZE |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|----------------------|-----|-----|-----|-----------------------|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | EGR                  | DOC | DPF | SCR | In-line               |
| EPA Final Tier 4/EU Stage V |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |
| 391                         | 524 | 2100 | 421        | 565 | 1900 | 8%          | 2495        | 1840  | 1550 | ■                    | ■   | ■   | ■   | 7                     |
| 436                         | 585 | 2100 | 446        | 598 | 1800 | 2%          | 2745        | 2025  | 1550 | ■                    | ■   | ■   | ■   | 7                     |
| 485                         | 650 | 2100 | 495        | 664 | 1800 | 2%          | 3050        | 2250  | 1550 | ■                    | ■   | ■   | ■   | 7                     |
| 510                         | 684 | 2100 | 510        | 684 | 1700 | 0%          | 3050        | 2250  | 1550 | ■                    | ■   | ■   | ■   | 7                     |
| EPA Final Tier 4            |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |
| 391                         | 524 | 2100 | 421        | 434 | 1900 | 8%          | 2495        | 1840  | 1550 | ■                    | ■   | -   | ■   | 7                     |
| 436                         | 585 | 2100 | 446        | 486 | 1900 | 2%          | 2745        | 2025  | 1550 | ■                    | ■   | -   | ■   | 7                     |
| 485                         | 650 | 2100 | 495        | 540 | 1900 | 2%          | 3050        | 2250  | 1550 | ■                    | ■   | -   | ■   | 7                     |
| 510                         | 684 | 2100 | 510        | 557 | 1900 | 0%          | 3050        | 2250  | 1550 | ■                    | ■   | -   | ■   | 7                     |



# JD14P IHR **NEXT GEN**

INDUSTRIAL HIGHLY REGULATED ENGINES



Base Machine Code: 4010RG

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 6-cylinder, In-line, 4-valve |
| DISPLACEMENT | 13.6L                        |
| POWER RANGE  | 300 – 410 kW (402 – 550 hp)  |
| EMISSIONS    | EPA Final Tier 4/EU Stage V  |
| TURBOCHARGER | Wastegate (WGT)              |
| EGR          | External cooled EGR          |

| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 1498           | 59 | 890   | 35 | 1366   | 54 | 1468   | 3236 |

| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | EMISSIONS TECHNOLOGY |     |     |     | EXHAUST CANISTER SIZE |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|----------------------|-----|-----|-----|-----------------------|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | EGR                  | DOC | DPF | SCR | In-line               |
| EPA Final Tier 4/EU Stage V |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |
| 300                         | 402 | 2100 | 324        | 434 | 1900 | 8%          | 1986        | 1465  | 1550 | ■                    | ■   | ■   | ■   | 6                     |
| 336                         | 450 | 2100 | 363        | 486 | 1900 | 8%          | 2192        | 1617  | 1550 | ■                    | ■   | ■   | ■   | 6                     |
| 373                         | 500 | 2100 | 403        | 540 | 1900 | 8%          | 2397        | 1768  | 1550 | ■                    | ■   | ■   | ■   | 6                     |
| 410                         | 550 | 2100 | 415        | 556 | 2000 | 1%          | 2510        | 1851  | 1550 | ■                    | ■   | ■   | ■   | 6                     |
| EPA Final Tier 4            |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |
| 300                         | 402 | 2100 | 324        | 434 | 1900 | 8%          | 1986        | 1465  | 1550 | ■                    | ■   | -   | ■   | 6                     |
| 336                         | 451 | 2100 | 363        | 486 | 1900 | 8%          | 2192        | 1617  | 1550 | ■                    | ■   | -   | ■   | 6                     |
| 373                         | 500 | 2100 | 403        | 540 | 1900 | 8%          | 2397        | 1768  | 1550 | ■                    | ■   | -   | ■   | 6                     |
| 410                         | 550 | 2100 | 415        | 557 | 1900 | 1%          | 2510        | 1851  | 1550 | ■                    | ■   | -   | ■   | 6                     |

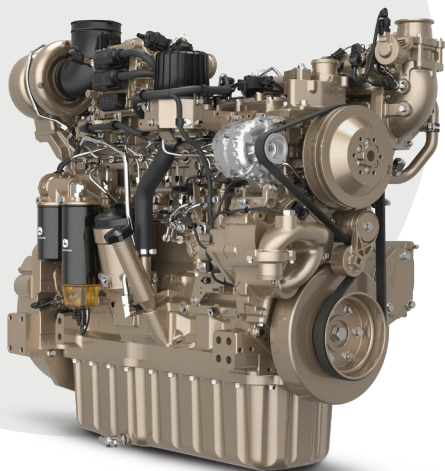




# JD9X IHR

NEXT GEN

INDUSTRIAL HIGHLY REGULATED ENGINES



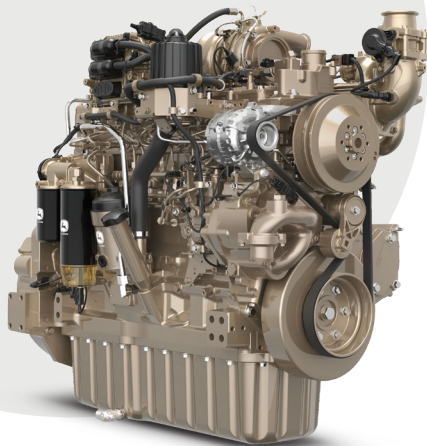
Base Machine Code: 4170RG

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 6-cylinder, In-line, 4-valve |
| DISPLACEMENT | 9.0L                         |
| POWER RANGE  | 280 – 343 kW (375 – 460 hp)  |
| EMISSIONS    | EPA Final Tier 4/EU Stage V  |
| TURBOCHARGER | Series                       |
| EGR          | External cooled EGR          |

| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 1315           | 52 | 763   | 30 | 1194   | 47 | 1055   | 2326 |

| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | EMISSIONS TECHNOLOGY |     |     |     | EXHAUST CANISTER SIZE |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|----------------------|-----|-----|-----|-----------------------|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | EGR                  | DOC | DPF | SCR | In-line               |
| EPA Final Tier 4/EU Stage V |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |
| 280                         | 375 | 2000 | 308        | 413 | 1800 | 10%         | 1722        | 1270  | 1600 | ■                    | ■   | ■   | ■   | 5                     |
| 298                         | 400 | 2000 | 328        | 440 | 1800 | 10%         | 1815        | 1339  | 1600 | ■                    | ■   | ■   | ■   | 5                     |
| 343                         | 460 | 2000 | 343        | 460 | 2000 | 0%          | 1883        | 1389  | 1600 | ■                    | ■   | ■   | ■   | 5                     |





Base Machine Code: 4180RG

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 6-cylinder, In-line, 4-valve |
| DISPLACEMENT | 9.0L                         |
| POWER RANGE  | 205 – 280 kW (275 – 375 hp)  |
| EMISSIONS    | EPA Final Tier 4/EU Stage V  |
| TURBOCHARGER | Variable geometry (VGT)      |
| EGR          | External cooled EGR          |

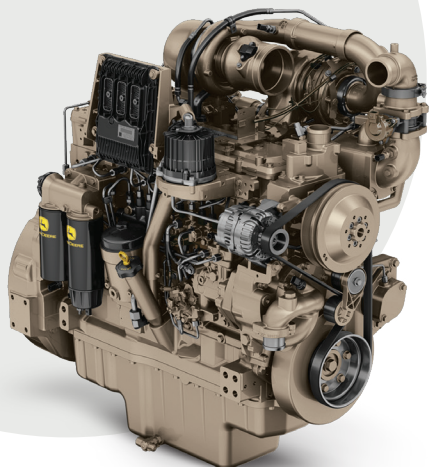
| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 1282           | 50 | 795   | 31 | 1208   | 48 | 998    | 2200 |

| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | EMISSIONS TECHNOLOGY |     |     |     | EXHAUST CANISTER SIZE |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|----------------------|-----|-----|-----|-----------------------|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | EGR                  | DOC | DPF | SCR | In-line               |
| EPA Final Tier 4/EU Stage V |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |
| 205                         | 275 | 2000 | 225        | 302 | 1800 | 10%         | 1310        | 966   | 1600 | ■                    | ■   | ■   | ■   | 4                     |
| 224                         | 300 | 2000 | 248        | 332 | 1700 | 11%         | 1477        | 1090  | 1600 | ■                    | ■   | ■   | ■   | 4                     |
| 242                         | 325 | 2000 | 267        | 358 | 1700 | 10%         | 1595        | 1177  | 1600 | ■                    | ■   | ■   | ■   | 4                     |
| 242                         | 325 | 2200 | 266        | 357 | 2000 | 10%         | 1450        | 1070  | 1600 | ■                    | ■   | ■   | ■   | 4                     |
| 261                         | 350 | 2000 | 280        | 375 | 1800 | 7%          | 1620        | 1195  | 1600 | ■                    | ■   | ■   | ■   | 4                     |
| 261                         | 350 | 2200 | 287        | 385 | 2000 | 10%         | 1563        | 1154  | 1600 | ■                    | ■   | ■   | ■   | 4                     |
| 280                         | 375 | 2000 | 286        | 383 | 1800 | 2%          | 1600        | 1180  | 1600 | ■                    | ■   | ■   | ■   | 4                     |



# 9.0X IHR

INDUSTRIAL HIGHLY REGULATED ENGINES



Base Machine Code: 4190RG

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 6-cylinder, In-line, 4-valve |
| DISPLACEMENT | 9.0L                         |
| POWER RANGE  | 187 – 317 kW (251 – 425 hp)  |
| EMISSIONS    | EPA Final Tier 4/EU Stage V  |
| TURBOCHARGER | Series                       |
| EGR          | External cooled EGR          |

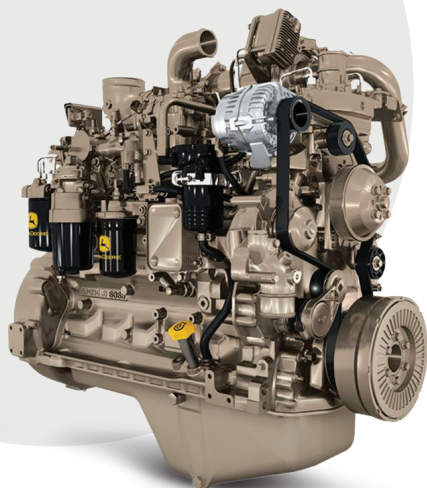
| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 1326           | 52 | 879   | 35 | 1266   | 50 | 1097   | 2418 |

| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | EMISSIONS TECHNOLOGY |     |     |     | EXHAUST CANISTER SIZE |     |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|----------------------|-----|-----|-----|-----------------------|-----|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | EGR                  | DOC | DPF | SCR | EF                    | SCR |
| EPA Final Tier 4/EU Stage V |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |     |
| 187                         | 251 | 2200 | 192        | 257 | 2000 | 2%          | 1120        | 827   | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 187                         | 251 | 2200 | 206        | 276 | 2000 | 10%         | 1120        | 827   | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 187                         | 251 | 2000 | 207        | 277 | 1700 | 11%         | 1232        | 909   | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 205                         | 275 | 2200 | 211        | 283 | 1900 | 2%          | 1228        | 906   | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 205                         | 275 | 2200 | 226        | 302 | 2000 | 10%         | 1228        | 906   | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 205                         | 275 | 2000 | 227        | 305 | 1700 | 11%         | 1351        | 997   | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 224                         | 300 | 2200 | 230        | 309 | 1900 | 3%          | 1341        | 990   | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 224                         | 300 | 2200 | 247        | 331 | 2000 | 10%         | 1341        | 990   | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 224                         | 301 | 2000 | 248        | 332 | 1700 | 10%         | 1477        | 1090  | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 242                         | 325 | 2200 | 248        | 332 | 2000 | 2%          | 1450        | 1070  | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 242                         | 325 | 2200 | 266        | 357 | 2000 | 10%         | 1450        | 1070  | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 242                         | 325 | 2000 | 267        | 358 | 1700 | 10%         | 1595        | 1177  | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 261                         | 350 | 2200 | 268        | 360 | 1900 | 3%          | 1563        | 1154  | 1600 | ■                    | ■   | ■   | ■   | 6                     | 6   |
| 261                         | 350 | 2200 | 287        | 385 | 2000 | 10%         | 1563        | 1154  | 1600 | ■                    | ■   | ■   | ■   | 6                     | 6   |
| 261                         | 350 | 2000 | 287        | 385 | 1800 | 10%         | 1685        | 1244  | 1600 | ■                    | ■   | ■   | ■   | 6                     | 6   |
| 280                         | 375 | 2200 | 287        | 385 | 1900 | 3%          | 1671        | 1233  | 1600 | ■                    | ■   | ■   | ■   | 6                     | 6   |
| 280                         | 375 | 2200 | 308        | 413 | 2000 | 10%         | 1671        | 1233  | 1600 | ■                    | ■   | ■   | ■   | 6                     | 6   |
| 280                         | 375 | 2000 | 301        | 403 | 1800 | 8%          | 1685        | 1244  | 1600 | ■                    | ■   | ■   | ■   | 6                     | 6   |
| 298                         | 400 | 2200 | 299        | 401 | 2100 | 0%          | 1685        | 1244  | 1600 | ■                    | ■   | ■   | ■   | 6                     | 6   |
| 298                         | 400 | 2200 | 316        | 424 | 2000 | 6%          | 1685        | 1244  | 1600 | ■                    | ■   | ■   | ■   | 6                     | 6   |
| 298                         | 400 | 2000 | 301        | 403 | 1800 | 1%          | 1685        | 1244  | 1600 | ■                    | ■   | ■   | ■   | 6                     | 6   |
| 317                         | 425 | 2200 | 317        | 425 | 2200 | 0%          | 1685        | 1244  | 1600 | ■                    | ■   | ■   | ■   | 6                     | 6   |



# 6.8X IHR

INDUSTRIAL HIGHLY REGULATED ENGINES



Base Machine Codes: 4500CD, 4500PE

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 6-cylinder, In-line, 4-valve |
| DISPLACEMENT | 6.8L                         |
| POWER RANGE  | 168 – 224 kW (225 – 300 hp)  |
| EMISSIONS    | EPA Final Tier 4/EU Stage V  |
| TURBOCHARGER | Series                       |
| EGR          | External cooled EGR          |

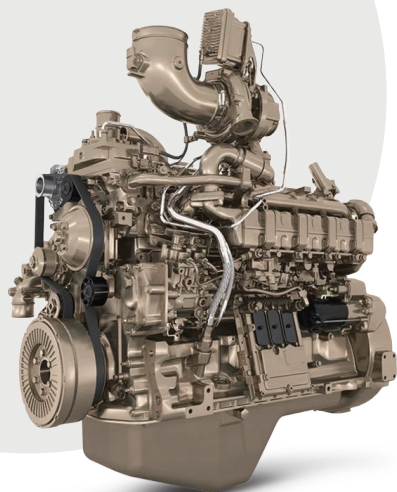
| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 1160           | 46 | 780   | 31 | 1205   | 47 | 785    | 1731 |

| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | EMISSIONS TECHNOLOGY |     |     |     | EXHAUST CANISTER SIZE |     |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|----------------------|-----|-----|-----|-----------------------|-----|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | EGR                  | DOC | DPF | SCR | EF                    | SCR |
| EPA Final Tier 4/EU Stage V |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |     |
| 168                         | 225 | 2400 | 185        | 247 | 2100 | 10%         | 1000        | 738   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 168                         | 225 | 2200 | 182        | 244 | 2000 | 8%          | 1000        | 738   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 187                         | 251 | 2400 | 187        | 251 | 2400 | 0%          | 1026        | 757   | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 187                         | 251 | 2200 | 187        | 251 | 2200 | 0%          | 1026        | 757   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 205                         | 275 | 2400 | 207        | 277 | 2100 | 1%          | 1057        | 780   | 1700 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 205                         | 275 | 2200 | 206        | 277 | 2200 | 0%          | 1057        | 780   | 1700 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 224                         | 300 | 2400 | 224        | 300 | 2400 | 0%          | 1141        | 842   | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |
| 224                         | 300 | 2200 | 224        | 300 | 2200 | 0%          | 1141        | 842   | 1600 | ■                    | ■   | ■   | ■   | 5                     | 5   |



# 6.8P IHR

INDUSTRIAL HIGHLY REGULATED ENGINES



Base Machine Codes: 4510CD, 4510PE

**ENGINE TYPE** 6-cylinder, In-line, 4-valve

**DISPLACEMENT** 6.8L

**POWER RANGE** 104 – 187 kW (140 – 251 hp)

**EMISSIONS** EPA Final Tier 4/EU Stage V

**TURBOCHARGER** Variable geometry (VGT)

**EGR** External cooled EGR

## SPECIFICATIONS

| Length |    | Width |    | Height |    | Weight |      |
|--------|----|-------|----|--------|----|--------|------|
| mm     | in | mm    | in | mm     | in | kg     | lb   |
| 1160   | 46 | 720   | 28 | 1350   | 53 | 770    | 1698 |

| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | EMISSIONS TECHNOLOGY |     |     |     | EXHAUST CANISTER SIZE |     |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|----------------------|-----|-----|-----|-----------------------|-----|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | EGR                  | DOC | DPF | SCR | EF                    | SCR |
| EPA Final Tier 4/EU Stage V |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |     |
| 104                         | 140 | 2400 | 104        | 140 | 2400 | 0%          | 556         | 410   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 104                         | 140 | 2400 | 112        | 151 | 2200 | 8%          | 556         | 410   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 104                         | 140 | 2200 | 106        | 142 | 2100 | 2%          | 613         | 452   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 104                         | 140 | 2200 | 112        | 151 | 2000 | 8%          | 613         | 452   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 116                         | 156 | 2400 | 117        | 157 | 2300 | 0%          | 619         | 457   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 116                         | 156 | 2400 | 125        | 168 | 2200 | 8%          | 619         | 457   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 116                         | 156 | 2200 | 119        | 159 | 2200 | 3%          | 676         | 499   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 116                         | 156 | 2200 | 125        | 168 | 2000 | 8%          | 676         | 499   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 129                         | 173 | 2400 | 129        | 173 | 2400 | 0%          | 688         | 508   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 129                         | 173 | 2400 | 139        | 187 | 2200 | 8%          | 688         | 508   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 129                         | 173 | 2200 | 132        | 177 | 2000 | 2%          | 745         | 550   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 129                         | 173 | 2200 | 140        | 187 | 2000 | 8%          | 756         | 558   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 138                         | 185 | 2400 | 138        | 185 | 2400 | 0%          | 741         | 547   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 138                         | 185 | 2400 | 152        | 204 | 2200 | 10%         | 741         | 547   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 138                         | 185 | 2200 | 152        | 204 | 2000 | 10%         | 809         | 597   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 138                         | 185 | 2000 | 152        | 204 | 1800 | 10%         | 890         | 657   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 149                         | 200 | 2400 | 149        | 200 | 2400 | 0%          | 800         | 590   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 149                         | 200 | 2400 | 164        | 220 | 2200 | 10%         | 800         | 590   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 149                         | 200 | 2200 | 164        | 220 | 2000 | 10%         | 873         | 644   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 149                         | 200 | 2000 | 164        | 220 | 1800 | 10%         | 963         | 711   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 168                         | 225 | 2400 | 168        | 225 | 2400 | 0%          | 900         | 664   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 168                         | 225 | 2400 | 185        | 248 | 2200 | 10%         | 900         | 664   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 168                         | 226 | 2200 | 185        | 248 | 2000 | 10%         | 970         | 716   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 168                         | 226 | 2000 | 185        | 247 | 1800 | 10%         | 1000        | 738   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 187                         | 251 | 2400 | 190        | 255 | 2200 | 2%          | 1000        | 738   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 187                         | 251 | 2200 | 190        | 255 | 2000 | 2%          | 1000        | 738   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |
| 187                         | 251 | 2000 | 187        | 251 | 2000 | 0%          | 1000        | 738   | 1600 | ■                    | ■   | ■   | ■   | 4                     | 4   |

# 4.5X IHR

## INDUSTRIAL HIGHLY REGULATED ENGINES



Base Machine Codes: 4630CD, 4630PE

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 4-cylinder, In-line, 4-valve |
| DISPLACEMENT | 4.5L                         |
| POWER RANGE  | 93 – 129 kW (125 – 173 hp)   |
| EMISSIONS    | EPA Final Tier 4/EU Stage V  |
| TURBOCHARGER | Series                       |
| EGR          | External cooled EGR          |

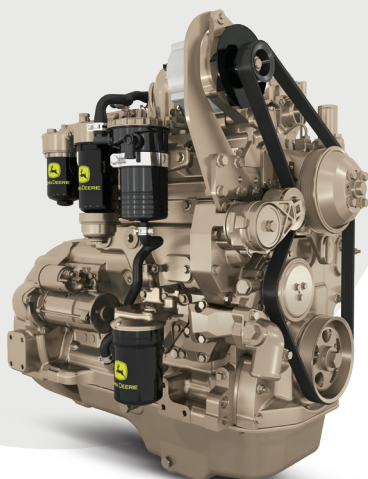
| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 870            | 34 | 635   | 25 | 1130   | 45 | 570    | 1257 |

| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | EMISSIONS TECHNOLOGY |     |     |     | EXHAUST CANISTER SIZE |     |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|----------------------|-----|-----|-----|-----------------------|-----|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | EGR                  | DOC | DPF | SCR | EF                    | SCR |
| EPA Final Tier 4/EU Stage V |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |     |
| 93                          | 125 | 2200 | 96         | 128 | 1900 | 0%          | 537         | 396   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 93                          | 125 | 2200 | 100        | 134 | 2000 | 8%          | 537         | 396   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 104                         | 140 | 2200 | 107        | 143 | 1900 | 3%          | 601         | 443   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 104                         | 140 | 2200 | 112        | 151 | 2000 | 8%          | 601         | 443   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 116                         | 155 | 2200 | 116        | 155 | 2200 | 0%          | 667         | 492   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 116                         | 155 | 2200 | 125        | 168 | 2000 | 8%          | 667         | 492   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 116                         | 155 | 2400 | 116        | 156 | 2400 | 0%          | 616         | 455   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 116                         | 155 | 2400 | 125        | 168 | 2200 | 8%          | 616         | 455   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 129                         | 173 | 2200 | 129        | 173 | 2200 | 0%          | 667         | 492   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| 129                         | 173 | 2400 | 129        | 173 | 2400 | 0%          | 667         | 492   | 1600 | ■                    | ■   | ■   | ■   | 3                     | 3   |
| EPA Final Tier 4            |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |     |
| 93                          | 125 | 2200 | 96         | 128 | 1900 | 3%          | 537         | 396   | 1600 | ■                    | ■   | -   | ■   | 3                     | 3   |
| 93                          | 125 | 2400 | 95         | 127 | 2100 | 2%          | 494         | 364   | 1600 | ■                    | ■   | -   | ■   | 3                     | 3   |
| 104                         | 140 | 2200 | 107        | 143 | 1900 | 3%          | 601         | 443   | 1600 | ■                    | ■   | -   | ■   | 3                     | 3   |
| 104                         | 140 | 2400 | 106        | 142 | 2200 | 2%          | 552         | 407   | 1600 | ■                    | ■   | -   | ■   | 3                     | 3   |
| 116                         | 156 | 2400 | 116        | 156 | 2400 | 0%          | 616         | 454   | 1600 | ■                    | ■   | -   | ■   | 3                     | 3   |
| 129                         | 173 | 2200 | 129        | 173 | 2200 | 0%          | 667         | 492   | 1600 | ■                    | ■   | -   | ■   | 3                     | 3   |
| 129                         | 173 | 2400 | 129        | 173 | 2400 | 0%          | 667         | 492   | 1600 | ■                    | ■   | -   | ■   | 3                     | 3   |



# 4.5P IHR

INDUSTRIAL HIGHLY REGULATED ENGINES



Base Machine Codes: 4640CD, 4640PE

**ENGINE TYPE** 4-cylinder, In-line, 4-valve

**DISPLACEMENT** 4.5L

**POWER RANGE** 63 – 110 kW (84 – 148 hp)

**EMISSIONS** EPA Final Tier 4/EU Stage V

**TURBOCHARGER** Wastegate (WGT)

**EGR** External cooled EGR

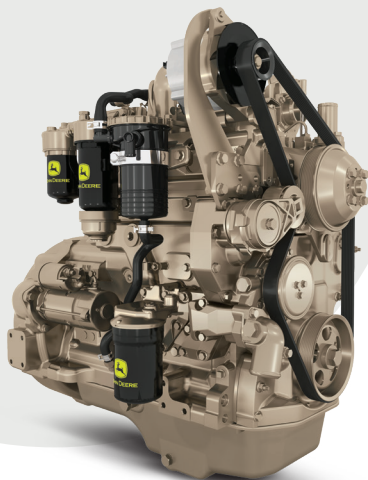
## SPECIFICATIONS

| Length |    | Width |    | Height |    | Weight |      |
|--------|----|-------|----|--------|----|--------|------|
| mm     | in | mm    | in | mm     | in | kg     | lb   |
| 870    | 34 | 650   | 26 | 1050   | 41 | 550    | 1213 |

| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | EMISSIONS TECHNOLOGY |     |     |     | EXHAUST CANISTER SIZE |     |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|----------------------|-----|-----|-----|-----------------------|-----|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | EGR                  | DOC | DPF | SCR | EF                    | SCR |
| EPA Final Tier 4/EU Stage V |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |     |
| 74                          | 99  | 2200 | 80         | 107 | 2000 | 8%          | 427         | 315   | 1600 | ■                    | ■   | ■   | ■   | 2                     | 3   |
| 86                          | 115 | 2200 | 88         | 118 | 1900 | 2%          | 506         | 374   | 1600 | ■                    | ■   | ■   | ■   | 2                     | 3   |
| 93                          | 125 | 2400 | 93         | 125 | 2400 | 0%          | 493         | 364   | 1600 | ■                    | ■   | ■   | ■   | 2                     | 3   |
| 93                          | 125 | 2200 | 94         | 126 | 2100 | 1%          | 536         | 396   | 1600 | ■                    | ■   | ■   | ■   | 2                     | 3   |
| 104                         | 140 | 2400 | 104        | 140 | 2400 | 0%          | 540         | 398   | 1600 | ■                    | ■   | ■   | ■   | 2                     | 3   |
| 104                         | 140 | 2200 | 104        | 140 | 2200 | 0%          | 540         | 398   | 1600 | ■                    | ■   | ■   | ■   | 2                     | 3   |
| EPA Final Tier 4            |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |     |
| 63                          | 84  | 2400 | 63         | 84  | 2400 | 0%          | 333         | 246   | 1600 | ■                    | ■   | -   | ■   | 2                     | 3   |
| 63                          | 84  | 2400 | 68         | 91  | 2200 | 8%          | 333         | 246   | 1600 | ■                    | ■   | -   | ■   | 2                     | 3   |
| 63                          | 84  | 2200 | 64         | 86  | 1900 | 2%          | 363         | 268   | 1600 | ■                    | ■   | -   | ■   | 2                     | 3   |
| 63                          | 84  | 2200 | 68         | 91  | 2000 | 8%          | 363         | 268   | 1600 | ■                    | ■   | -   | ■   | 2                     | 3   |
| 74                          | 99  | 2400 | 74         | 99  | 2400 | 0%          | 391         | 288   | 1600 | ■                    | ■   | -   | ■   | 2                     | 3   |
| 74                          | 99  | 2400 | 80         | 107 | 2200 | 8%          | 391         | 288   | 1600 | ■                    | ■   | -   | ■   | 2                     | 3   |
| 74                          | 99  | 2200 | 75         | 101 | 2100 | 1%          | 427         | 315   | 1600 | ■                    | ■   | -   | ■   | 2                     | 3   |
| 74                          | 99  | 2200 | 80         | 107 | 2000 | 8%          | 427         | 315   | 1600 | ■                    | ■   | -   | ■   | 2                     | 3   |
| 86                          | 115 | 2400 | 86         | 115 | 2400 | 0%          | 461         | 340   | 1600 | ■                    | ■   | -   | ■   | 2                     | 3   |
| 86                          | 115 | 2200 | 88         | 118 | 1900 | 2%          | 506         | 374   | 1600 | ■                    | ■   | -   | ■   | 2                     | 3   |
| 93                          | 125 | 2400 | 93         | 125 | 2400 | 0%          | 493         | 364   | 1600 | ■                    | ■   | -   | ■   | 2                     | 3   |
| 93                          | 125 | 2200 | 94         | 126 | 2100 | 1%          | 536         | 396   | 1600 | ■                    | ■   | -   | ■   | 2                     | 3   |
| 100                         | 134 | 2400 | 104        | 140 | 2200 | 4%          | 540         | 399   | 1600 | ■                    | ■   | -   | ■   | 2                     | 3   |
| 104                         | 140 | 2200 | 104        | 140 | 2200 | 0%          | 540         | 399   | 1600 | ■                    | ■   | -   | ■   | 2                     | 3   |
| 110*                        | 148 | 2200 | 110        | 148 | 2200 | 0%          | 540         | 399   | 1400 | ■                    | ■   | -   | ■   | 2                     | 3   |

# 4.5G IHR

INDUSTRIAL HIGHLY REGULATED ENGINES

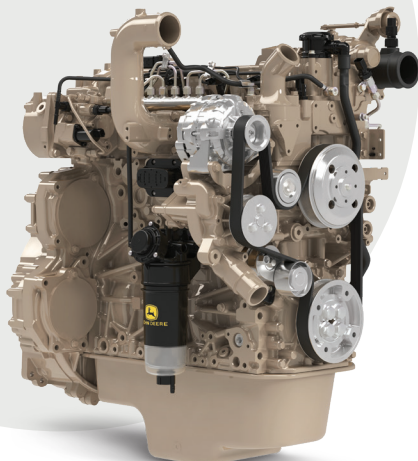


Base Machine Codes: 4650CD, 4650PE

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 4-cylinder, In-line, 2-valve |
| DISPLACEMENT | 4.5L                         |
| POWER RANGE  | 55 – 110 kW (74 – 148 hp)    |
| EMISSIONS    | EPA Final Tier 4/EU Stage V  |
| TURBOCHARGER | Wastegate (WGT)              |
| EGR          | No EGR                       |

| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 870            | 34 | 663   | 26 | 1024   | 40 | 506    | 1116 |

| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | EMISSIONS TECHNOLOGY |     |     |     | EXHAUST CANISTER SIZE |     |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|----------------------|-----|-----|-----|-----------------------|-----|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | EGR                  | DOC | DPF | SCR | EF                    | SCR |
| EPA Final Tier 4/EU Stage V |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |     |
| 55                          | 74  | 2400 | 55         | 74  | 2400 | 0%          | 304         | 224   | 1600 | -                    | ■   | ■   | -   | 2                     | -   |
| 55                          | 74  | 2200 | 55         | 74  | 2200 | 0%          | 304         | 224   | 1600 | -                    | ■   | ■   | -   | 2                     | -   |
| 74                          | 99  | 2100 | 92         | 123 | 1650 | 24%         | 551         | 406   | 1600 | -                    | ■   | ■   | ■   | 2                     | 2   |
| 86                          | 115 | 2100 | 98         | 131 | 1800 | 14%         | 562         | 415   | 1600 | -                    | ■   | ■   | ■   | 2                     | 2   |
| 96                          | 129 | 2100 | 102        | 137 | 1900 | 6%          | 574         | 423   | 1600 | -                    | ■   | ■   | ■   | 2                     | 2   |
| 104                         | 140 | 2100 | 107        | 143 | 1900 | 3%          | 586         | 432   | 1600 | -                    | ■   | ■   | ■   | 2                     | 2   |
| 110                         | 148 | 2100 | 110        | 148 | 2000 | 0%          | 586         | 432   | 1600 | -                    | ■   | ■   | ■   | 2                     | 2   |
| EPA Final Tier 4            |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |     |
| 74                          | 99  | 2200 | 75         | 101 | 1950 | 1%          | 427         | 315   | 1600 | -                    | ■   | -   | ■   | 2                     | 2   |
| 86                          | 115 | 2200 | 88         | 118 | 1850 | 2%          | 506         | 374   | 1600 | -                    | ■   | -   | ■   | 2                     | 2   |
| 93                          | 125 | 2200 | 94         | 126 | 1850 | 1%          | 536         | 396   | 1600 | -                    | ■   | -   | ■   | 2                     | 2   |
| 104                         | 140 | 2200 | 104        | 140 | 2200 | 0%          | 540         | 399   | 1600 | -                    | ■   | -   | ■   | 2                     | 2   |
| 110                         | 148 | 2200 | 110        | 148 | 2200 | 0%          | 540         | 399   | 1600 | -                    | ■   | -   | ■   | 2                     | 2   |



Base Machine Code: 5000PE

**ENGINE TYPE** 4-cylinder, In-line, 2-valve

**DISPLACEMENT** 3.9L

**POWER RANGE** 63 – 129 kW (84 – 173 hp)

**EMISSIONS** EPA Final Tier 4/EU Stage V

**TURBOCHARGER** Wastegate (WGT)

**EGR** No EGR

### SPECIFICATIONS

| Length |    | Width |    | Height |    | Weight |      |
|--------|----|-------|----|--------|----|--------|------|
| mm     | in | mm    | in | mm     | in | kg     | lb   |
| 823    | 32 | 655   | 26 | 844    | 33 | 474    | 1045 |

| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | EMISSIONS TECHNOLOGY |     |     |     | EXHAUST CANISTER SIZE |     |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|----------------------|-----|-----|-----|-----------------------|-----|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | EGR                  | DOC | DPF | SCR | EF                    | SCR |
| EPA Final Tier 4/EU Stage V |     |      |            |     |      |             |             |       |      |                      |     |     |     |                       |     |
| 63                          | 84  | 2200 | 68         | 91  | 2000 | 8%          | 364         | 268   | 1400 | -                    | ■   | ■   | ■   | 2                     | 2   |
| 75                          | 100 | 2200 | 81         | 109 | 2000 | 8%          | 433         | 319   | 1400 | -                    | ■   | ■   | ■   | 2                     | 2   |
| 86                          | 115 | 2200 | 93         | 125 | 2000 | 8%          | 497         | 367   | 1400 | -                    | ■   | ■   | ■   | 2                     | 2   |
| 93                          | 125 | 2200 | 100        | 134 | 2000 | 8%          | 537         | 396   | 1400 | -                    | ■   | ■   | ■   | 2                     | 2   |
| 105                         | 141 | 2200 | 113        | 152 | 2000 | 8%          | 606         | 447   | 1400 | -                    | ■   | ■   | ■   | 2                     | 2   |
| 120                         | 161 | 2200 | 120        | 161 | 2200 | 0%          | 700         | 516   | 1400 | -                    | ■   | ■   | ■   | 2                     | 2   |
| 129*                        | 173 | 2200 | 129        | 173 | 2200 | 0%          | 717         | 516   | 1300 | -                    | ■   | ■   | ■   | 2                     | 2   |

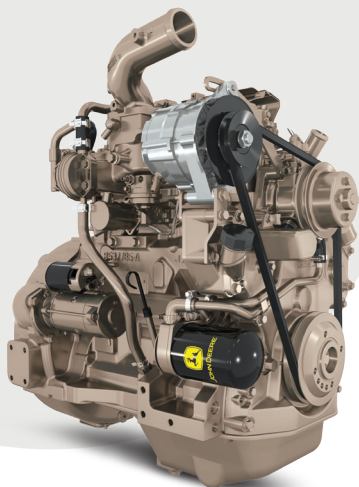
\*Restricted rating





# 2.9G IHR

INDUSTRIAL HIGHLY REGULATED ENGINES



Base Machine Code: 4800CD

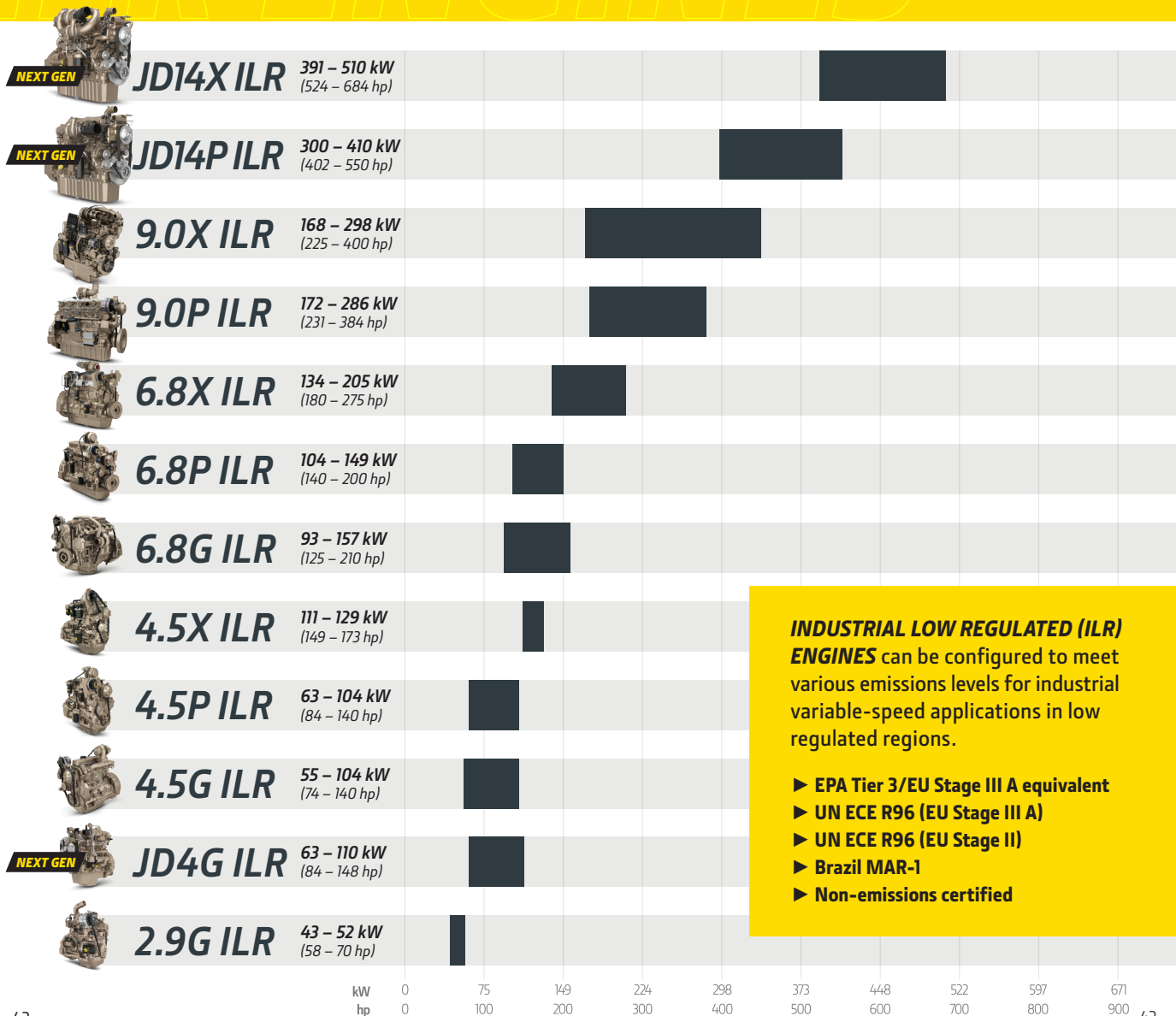
|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 3-cylinder, In-line, 2-valve |
| DISPLACEMENT | 2.9L                         |
| POWER RANGE  | 36 – 55 kW (48 – 74 hp)      |
| EMISSIONS    | EPA Final Tier 4/EU Stage V  |
| TURBOCHARGER | Wastegate (WGT)              |
| EGR          | No EGR                       |

| SPECIFICATIONS |    |       |    |        |    |        |     |
|----------------|----|-------|----|--------|----|--------|-----|
| Length         |    | Width |    | Height |    | Weight |     |
| mm             | in | mm    | in | mm     | in | kg     | lb  |
| 715            | 28 | 596   | 24 | 956    | 38 | 400    | 882 |

| RATED POWER                 |    |      | PEAK POWER |    |      | POWER BULGE | PEAK TORQUE |       |      | EMISSIONS TECHNOLOGY |     |     |     | EXHAUST CANISTER SIZE |     |
|-----------------------------|----|------|------------|----|------|-------------|-------------|-------|------|----------------------|-----|-----|-----|-----------------------|-----|
| kW                          | hp | rpm  | kW         | hp | rpm  | %           | Nm          | lb-ft | rpm  | EGR                  | DOC | DPF | SCR | EF                    | SCR |
| EPA Final Tier 4/EU Stage V |    |      |            |    |      |             |             |       |      |                      |     |     |     |                       |     |
| 36                          | 48 | 2400 | 36         | 48 | 2400 | 0%          | 192         | 142   | 1600 | -                    | ■   | ■   | -   | 2                     | -   |
| 36                          | 48 | 2200 | 36         | 48 | 2200 | 0%          | 209         | 154   | 1600 | -                    | ■   | ■   | -   | 2                     | -   |
| 48                          | 64 | 2400 | 48         | 64 | 2400 | 0%          | 254         | 187   | 1600 | -                    | ■   | ■   | -   | 2                     | -   |
| 48                          | 64 | 2200 | 48         | 64 | 2200 | 0%          | 280         | 207   | 1600 | -                    | ■   | ■   | -   | 2                     | -   |
| 55                          | 74 | 2400 | 55         | 74 | 2400 | 0%          | 292         | 215   | 1600 | -                    | ■   | ■   | -   | 2                     | -   |
| 55                          | 74 | 2200 | 55         | 74 | 2200 | 0%          | 304         | 224   | 1600 | -                    | ■   | ■   | -   | 2                     | -   |



# POWER RATINGS >>> INDUSTRIAL LOW REGULATED ENGINES



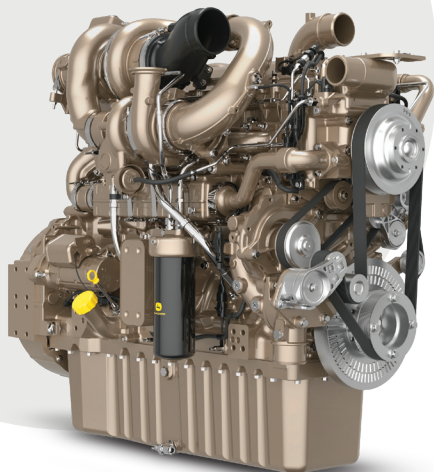
# SPECIFICATIONS >>> INDUSTRIAL LOW REGULATED ENGINES

| ENGINE MODEL     | TYPE | DISPL. | VALVES  | ASPIRATION |       |               | TURBO  | CONTROLS   | EGR | EMISSIONS                            | POWER RATINGS               |
|------------------|------|--------|---------|------------|-------|---------------|--------|------------|-----|--------------------------------------|-----------------------------|
|                  |      |        |         | Nat. Asp.  | Turbo | Turbo Air-Air |        |            |     |                                      |                             |
| <b>JD14X ILR</b> | L6   | 13.6L  | 4-valve | -          | -     | ■             | Series | Electronic | ■   | EPA Tier 3/EU Stage III A equivalent | 391 – 510 kW (524 – 684 hp) |
| <b>JD14P ILR</b> | L6   | 13.6L  | 4-valve | -          | -     | ■             | WGT    | Electronic | -   | Non-emissions certified              | 300 – 410 kW (402 – 550 hp) |
| <b>9.0X ILR</b>  | L6   | 9.0L   | 4-valve | -          | -     | ■             | VGT    | Electronic | ■   | EPA Tier 3/EU Stage III A equivalent | 168 – 298 kW (225 – 400 hp) |
| <b>9.0P ILR</b>  | L6   | 9.0L   | 4-valve | -          | -     | ■             | Fixed  | Electronic | -   | EPA Tier 2/EU Stage II equivalent    | 172 – 286 kW (231 – 384 hp) |
| <b>6.8X ILR</b>  | L6   | 6.8L   | 4-valve | -          | -     | ■             | VGT    | Electronic | ■   | EPA Tier 3/EU Stage III A equivalent | 134 – 205 kW (180 – 275 hp) |
| <b>6.8P ILR</b>  | L6   | 6.8L   | 2-valve | -          | -     | ■             | Fixed  | Electronic | -   | EPA Tier 3/EU Stage III A equivalent | 104 – 149 kW (140 – 200 hp) |
| <b>6.8G ILR</b>  | L6   | 4.5L   | 4-valve | -          | -     | ■             | Fixed  | Mechanical | -   | Non-emissions certified              | 143 – 157 kW (192 – 210 hp) |
|                  |      |        |         | -          | ■     | -             | Fixed  | Mechanical | -   | Non-emissions certified              | 94 – 138 kW (126 – 185 hp)  |
|                  |      |        |         | ■          | -     | -             | -      | Mechanical | -   | Non-emissions certified              | 93 kW (125 hp)              |
| <b>4.5X ILR</b>  | L4   | 4.5L   | 4-valve | -          | -     | ■             | VGT    | Electronic | ■   | EPA Tier 3/EU Stage III A equivalent | 111 – 129 kW (149 – 173 hp) |
| <b>4.5P ILR</b>  | L4   | 4.5L   | 2-valve | -          | -     | ■             | Fixed  | Electronic | -   | EPA Tier 3/EU Stage III A equivalent | 86 – 104 kW (115 – 140 hp)  |
|                  |      |        |         | -          | ■     | -             | Fixed  | Electronic | -   | EPA Tier 3/EU Stage III A equivalent | 63 – 74 kW (84 – 99 hp)     |
| <b>4.5G ILR</b>  | L4   | 4.5L   | 2-valve | -          | -     | ■             | Fixed  | Mechanical | -   | EPA Tier 3/EU Stage III A equivalent | 74 kW (99 hp)               |
|                  |      |        |         | -          | ■     | -             | Fixed  | Mechanical | -   | EPA Tier 3/EU Stage III A equivalent | 55 – 63 kW (74 – 85 hp)     |
|                  |      |        |         | -          | -     | ■             | Fixed  | Mechanical | -   | Non-emissions certified              | 104 kW (140 hp)             |
|                  |      |        |         | -          | ■     | -             | Fixed  | Mechanical | -   | Non-emissions certified              | 67 – 93 kW (89 – 125 hp)    |
|                  |      |        |         | ■          | -     | -             | -      | Mechanical | -   | Non-emissions certified              | 55 – 60 kW (74 – 80 hp)     |
| <b>JD4G ILR</b>  | L4   | 3.9L   | 2-valve | -          | -     | ■             | WGT    | Electronic | ■   | EPA Tier 3/EU Stage III A equivalent | 63 – 110 kW (84 – 148 hp)   |
| <b>2.9G ILR</b>  | L3   | 2.9L   | 2-valve | -          | ■     | -             | Fixed  | Mechanical | -   | Non-emissions certified              | 52 kW (70 hp)               |
|                  |      |        |         | ■          | -     | -             | -      | Mechanical | -   | Non-emissions certified              | 43 kW (58 hp)               |



# JD14X ILR **NEXT GEN**

## >>> INDUSTRIAL LOW REGULATED ENGINES



Base Machine Code: 4020RG

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 6-cylinder, In-line, 4-valve |
| DISPLACEMENT | 13.6L                        |
| POWER RANGE  | 300 – 410 kW (402 – 550 hp)  |
| EMISSIONS    | UN ECE R96 (EU Stage III A)  |
| FUEL SYSTEM  | Electronic                   |
| EGR          | External cooled EGR          |

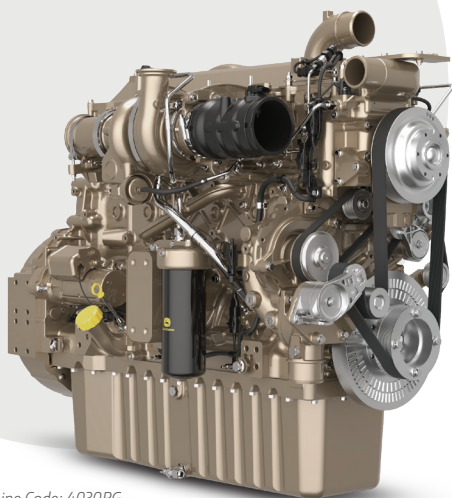
| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 1464           | 58 | 863   | 34 | 1360   | 54 | 1552   | 3422 |

| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | TECHNOLOGY    |        | EMISSIONS |     |       | JET FUEL COMP. |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|---------------|--------|-----------|-----|-------|----------------|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | Aspiration    | Turbo  | NC        | R96 | MAR-1 |                |
| UN ECE R96 (EU Stage III A) |     |      |            |     |      |             |             |       |      |               |        |           |     |       |                |
| 391                         | 524 | 2100 | 421        | 565 | 1900 | 8%          | 2495        | 1840  | 1550 | Turbo Air-Air | Series | ■         | ■   | -     | -              |
| 436                         | 585 | 2100 | 446        | 598 | 1800 | 2%          | 2745        | 2025  | 1550 | Turbo Air-Air | Series | ■         | ■   | -     | -              |
| 485                         | 650 | 2100 | 495        | 664 | 1900 | 2%          | 3050        | 2250  | 1550 | Turbo Air-Air | Series | ■         | ■   | -     | -              |
| 510                         | 684 | 2100 | 510        | 684 | 1700 | 0%          | 3050        | 2250  | 1550 | Turbo Air-Air | Series | ■         | ■   | -     | -              |



# JD14P ILR **NEXT GEN**

## >>> INDUSTRIAL LOW REGULATED ENGINES



Base Machine Code: 4030RG

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 6-cylinder, In-line, 4-valve |
| DISPLACEMENT | 13.6L                        |
| POWER RANGE  | 300 – 410 kW (402 – 550 hp)  |
| EMISSIONS    | Non-emissions certified      |
| FUEL SYSTEM  | Electronic                   |
| EGR          | No EGR                       |

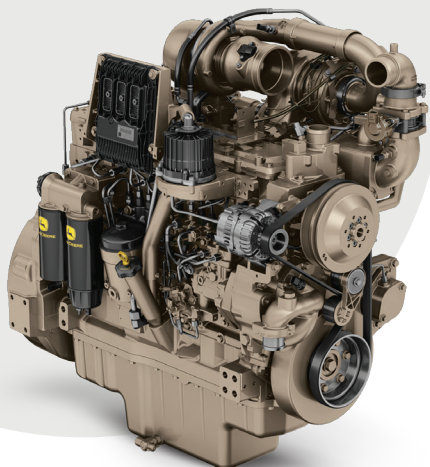
| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 1494           | 59 | 858   | 34 | 1360   | 54 | 1461   | 3221 |

| RATED POWER             |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | TECHNOLOGY    |       | EMISSIONS |     |       | JET FUEL COMP. |
|-------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|---------------|-------|-----------|-----|-------|----------------|
| kW                      | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | Aspiration    | Turbo | NC        | R96 | MAR-1 |                |
| Non-emissions certified |     |      |            |     |      |             |             |       |      |               |       |           |     |       |                |
| 300                     | 402 | 2100 | 324        | 434 | 1900 | 8%          | 1986        | 1465  | 1550 | Turbo Air-Air | WGT   | ■         | -   | -     | -              |
| 336                     | 450 | 2100 | 363        | 486 | 1900 | 8%          | 2180        | 1608  | 1550 | Turbo Air-Air | WGT   | ■         | -   | -     | -              |
| 373                     | 500 | 2100 | 403        | 540 | 1900 | 8%          | 2397        | 1768  | 1550 | Turbo Air-Air | WGT   | ■         | -   | -     | -              |
| 391                     | 524 | 2100 | 421        | 565 | 1900 | 8%          | 2495        | 1840  | 1550 | Turbo Air-Air | WGT   | ■         | -   | -     | -              |
| 410                     | 550 | 2100 | 421        | 565 | 1900 | 3%          | 2510        | 1851  | 1550 | Turbo Air-Air | WGT   | ■         | -   | -     | -              |



# 9.0X ILR

## >>> INDUSTRIAL LOW REGULATED ENGINES



Base Machine Code: 4100RG

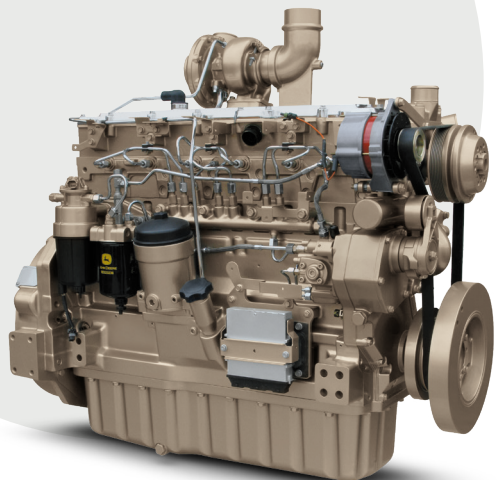
|              |                                      |
|--------------|--------------------------------------|
| ENGINE TYPE  | 6-cylinder, In-line, 4-valve         |
| DISPLACEMENT | 9.0L                                 |
| POWER RANGE  | 168 – 298 kW (225 – 400 hp)          |
| EMISSIONS    | EPA Tier 3/EU Stage III A equivalent |
| FUEL SYSTEM  | Electronic                           |
| EGR          | External cooled EGR                  |

| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 1208           | 48 | 630   | 25 | 1113   | 44 | 901    | 1986 |

| RATED POWER                          |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | TECHNOLOGY    |       | EMISSIONS |     |       | JET FUEL COMP. |
|--------------------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|---------------|-------|-----------|-----|-------|----------------|
| kW                                   | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | Aspiration    | Turbo | NC        | R96 | MAR-1 |                |
| EPA Tier 3/EU Stage III A equivalent |     |      |            |     |      |             |             |       |      |               |       |           |     |       |                |
| 168                                  | 225 | 2000 | 187        | 251 | 1800 | 11%         | 1095        | 807   | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 168                                  | 225 | 2200 | 187        | 251 | 2000 | 11%         | 1095        | 807   | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 168                                  | 225 | 2200 | 168        | 225 | 2200 | 0%          | 984         | 726   | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 187                                  | 251 | 2000 | 205        | 275 | 1800 | 10%         | 1201        | 886   | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 187                                  | 251 | 2200 | 205        | 275 | 2000 | 10%         | 1201        | 886   | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 187                                  | 251 | 2200 | 187        | 251 | 2200 | 0%          | 1095        | 807   | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 205                                  | 275 | 2000 | 224        | 301 | 1800 | 9%          | 1313        | 968   | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 205                                  | 275 | 2200 | 224        | 301 | 1800 | 9%          | 1313        | 968   | 1500 | Turbo Air-Air | VGT   | ■         | -   | ■     | -              |
| 205                                  | 275 | 2200 | 205        | 275 | 2200 | 0%          | 1201        | 886   | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 224                                  | 300 | 2000 | 243        | 325 | 1800 | 8%          | 1421        | 1048  | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 224                                  | 300 | 2200 | 243        | 325 | 2000 | 8%          | 1421        | 1048  | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 224                                  | 300 | 2200 | 224        | 300 | 2200 | 0%          | 1313        | 968   | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 242                                  | 325 | 2000 | 261        | 350 | 1800 | 8%          | 1530        | 1128  | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 242                                  | 325 | 2200 | 261        | 350 | 2000 | 8%          | 1530        | 1128  | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 242                                  | 325 | 2200 | 242        | 325 | 2200 | 0%          | 1421        | 1048  | 1500 | Turbo Air-Air | VGT   | ■         | -   | ■     | -              |
| 261                                  | 350 | 2000 | 279        | 375 | 1800 | 7%          | 1554        | 1146  | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 261                                  | 350 | 2200 | 280        | 375 | 2000 | 7%          | 1543        | 1138  | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 261                                  | 350 | 2200 | 261        | 350 | 2200 | 0%          | 1530        | 1128  | 1500 | Turbo Air-Air | VGT   | ■         | -   | ■     | -              |
| 280                                  | 375 | 2200 | 280        | 375 | 2200 | 0%          | 1543        | 1138  | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |
| 298                                  | 400 | 2200 | 298        | 400 | 2200 | 0%          | 1550        | 1143  | 1500 | Turbo Air-Air | VGT   | ■         | -   | -     | -              |

# 9.0P ILR

## >>> INDUSTRIAL LOW REGULATED ENGINES



Base Machine Code: 4110RG

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 6-cylinder, In-line, 4-valve |
| DISPLACEMENT | 9.0L                         |
| POWER RANGE  | 172 – 286 kW (231 – 384 hp)  |
| EMISSIONS    | UN ECE R96 (EU Stage II)     |
| FUEL SYSTEM  | Electronic                   |
| EGR          | No EGR                       |

| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 1211           | 48 | 633   | 25 | 1260   | 50 | 1097   | 2418 |

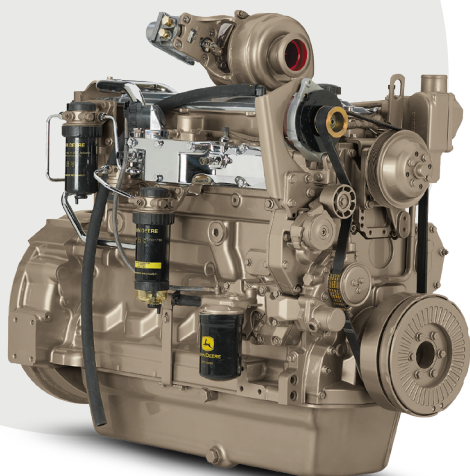
| RATED POWER              |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | TECHNOLOGY    |       | EMISSIONS |     |       | JET FUEL COMP. |
|--------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|---------------|-------|-----------|-----|-------|----------------|
| kW                       | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | Aspiration    | Turbo | NC        | R96 | MAR-1 |                |
| UN ECE R96 (EU Stage II) |     |      |            |     |      |             |             |       |      |               |       |           |     |       |                |
| 172                      | 231 | 2200 | 206        | 276 | 1800 | 20%         | 1200        | 885   | 1600 | Turbo Air-Air | Fixed | ■         | ■   | -     | -              |
| 219                      | 294 | 2200 | 248        | 333 | 2000 | 13%         | 1228        | 906   | 1600 | Turbo Air-Air | Fixed | ■         | ■   | -     | -              |
| 239                      | 321 | 2200 | 272        | 365 | 2000 | 14%         | 1349        | 995   | 1600 | Turbo Air-Air | Fixed | ■         | ■   | -     | -              |
| 261                      | 350 | 2200 | 298        | 400 | 2000 | 14%         | 1474        | 1087  | 1600 | Turbo Air-Air | Fixed | ■         | ■   | -     | -              |
| 286                      | 384 | 2200 | 298        | 400 | 2000 | 4%          | 1474        | 1087  | 1600 | Turbo Air-Air | Fixed | ■         | ■   | -     | -              |





# 6.8X ILR

## >>> INDUSTRIAL LOW REGULATED ENGINES



Base Machine Codes: 4520CD, 4520PE

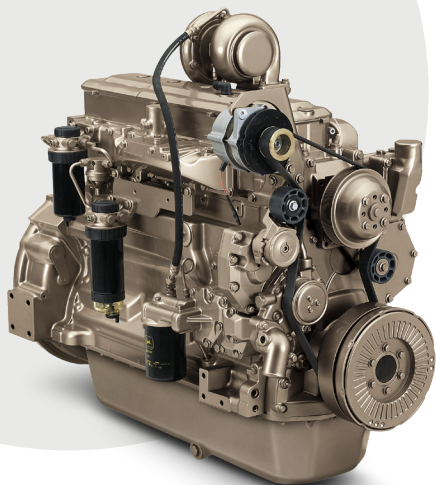
|              |                                      |
|--------------|--------------------------------------|
| ENGINE TYPE  | 6-cylinder, In-line, 4-valve         |
| DISPLACEMENT | 6.8L                                 |
| POWER RANGE  | 134 – 205 kW (180 – 275 hp)          |
| EMISSIONS    | EPA Tier 3/EU Stage III A equivalent |
| FUEL SYSTEM  | Electronic                           |
| EGR          | External cooled EGR                  |

| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 1120           | 44 | 611   | 24 | 1058   | 42 | 678    | 1495 |

| RATED POWER                          |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | TECHNOLOGY    |       | EMISSIONS |     |       | JET FUEL COMP. |
|--------------------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|---------------|-------|-----------|-----|-------|----------------|
| kW                                   | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | Aspiration    | Turbo | NC        | R96 | MAR-1 |                |
| EPA Tier 3/EU Stage III A equivalent |     |      |            |     |      |             |             |       |      |               |       |           |     |       |                |
| 134                                  | 180 | 2000 | 138        | 184 | 1600 | 3%          | 838         | 618   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 138                                  | 185 | 2000 | 144        | 193 | 2000 | 4%          | 744         | 549   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 138                                  | 185 | 1800 | 151        | 203 | 1800 | 9%          | 838         | 618   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 138                                  | 185 | 2400 | 138        | 185 | 2400 | 0%          | 690         | 509   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 144                                  | 193 | 2000 | 151        | 203 | 1800 | 5%          | 838         | 618   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 144                                  | 193 | 2000 | 153        | 205 | 1700 | 6%          | 934         | 689   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 149                                  | 200 | 2200 | 162        | 218 | 2000 | 9%          | 838         | 618   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 149                                  | 200 | 2200 | 168        | 226 | 1800 | 13%         | 934         | 689   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 149                                  | 200 | 2400 | 149        | 200 | 2400 | 0%          | 744         | 549   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 162                                  | 217 | 2000 | 168        | 226 | 1800 | 4%          | 934         | 689   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 162                                  | 217 | 2000 | 168        | 226 | 1800 | 4%          | 1025        | 756   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 168                                  | 225 | 2200 | 181        | 242 | 2000 | 8%          | 934         | 689   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 168                                  | 225 | 2200 | 185        | 247 | 1800 | 10%         | 1025        | 756   | 1400 | Turbo Air-Air | VGT   | ■         | ■   | -     | ■              |
| 168                                  | 225 | 2400 | 168        | 225 | 2400 | 0%          | 838         | 618   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 181                                  | 243 | 2000 | 185        | 247 | 1800 | 2%          | 1025        | 756   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 187                                  | 251 | 2200 | 198        | 266 | 2000 | 6%          | 1025        | 756   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 187                                  | 251 | 2400 | 187        | 251 | 2400 | 0%          | 934         | 689   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 205                                  | 275 | 2400 | 205        | 275 | 2400 | 0%          | 1025        | 756   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |

# 6.8P ILR

## >>> INDUSTRIAL LOW REGULATED ENGINES



Base Machine Codes: 4530CD, 4530PE

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 6-cylinder, In-line, 2-valve |
| DISPLACEMENT | 6.8L                         |
| POWER RANGE  | 104 – 149 kW (140 – 200 hp)  |
| EMISSIONS    | UN ECE R96 (EU Stage III A)  |
| FUEL SYSTEM  | Electronic                   |
| EGR          | No EGR                       |

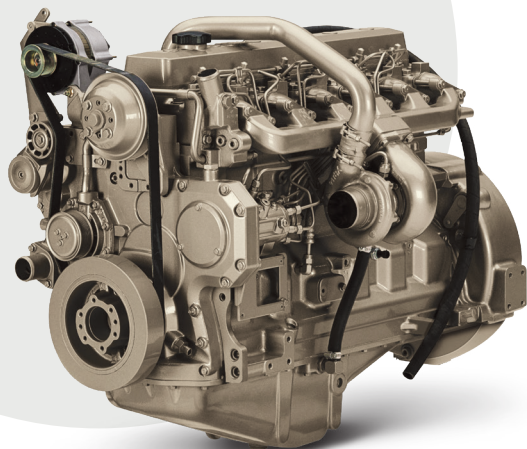
| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 1123           | 44 | 657   | 26 | 1036   | 41 | 608    | 1340 |

| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | TECHNOLOGY    |       | EMISSIONS |     |       | JET FUEL COMP. |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|---------------|-------|-----------|-----|-------|----------------|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | Aspiration    | Turbo | NC        | R96 | MAR-1 |                |
| UN ECE R96 (EU Stage III A) |     |      |            |     |      |             |             |       |      |               |       |           |     |       |                |
| 104                         | 140 | 2200 | 111        | 149 | 2000 | 7%          | 598         | 441   | 1500 | Turbo Air-Air | Fixed | ■         | ■   | -     | -              |
| 104                         | 140 | 2400 | 104        | 140 | 2400 | 0%          | 538         | 397   | 1500 | Turbo Air-Air | Fixed | ■         | ■   | -     | -              |
| 116                         | 155 | 2200 | 124        | 166 | 2000 | 7%          | 667         | 492   | 1500 | Turbo Air-Air | Fixed | ■         | ■   | -     | -              |
| 116                         | 155 | 2400 | 116        | 156 | 2400 | 0%          | 598         | 441   | 1500 | Turbo Air-Air | Fixed | ■         | ■   | -     | -              |
| 129                         | 173 | 2200 | 132        | 177 | 2000 | 2%          | 714         | 527   | 1500 | Turbo Air-Air | Fixed | ■         | ■   | -     | -              |
| 129                         | 173 | 2400 | 129        | 173 | 2400 | 0%          | 667         | 492   | 1500 | Turbo Air-Air | Fixed | ■         | ■   | ■     | -              |
| 138                         | 185 | 2200 | 144        | 193 | 2000 | 4%          | 785         | 579   | 1500 | Turbo Air-Air | Fixed | ■         | ■   | -     | -              |
| 138                         | 185 | 2400 | 138        | 185 | 2400 | 0%          | 714         | 527   | 1500 | Turbo Air-Air | Fixed | ■         | ■   | -     | -              |
| 149                         | 200 | 2400 | 149        | 200 | 2400 | 0%          | 785         | 579   | 1500 | Turbo Air-Air | Fixed | ■         | ■   | -     | -              |



# 6.8G ILR

➤➤➤ INDUSTRIAL LOW REGULATED ENGINES



Base Machine Codes: 4540CD, 4540PE

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 6-cylinder, In-line, 2-valve |
| DISPLACEMENT | 6.8L                         |
| POWER RANGE  | 93 – 157 kW (125 – 210 hp)   |
| EMISSIONS    | Non-emissions certified      |
| FUEL SYSTEM  | Mechanical                   |
| EGR          | No EGR                       |

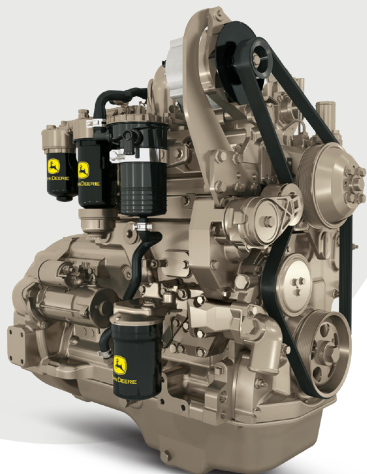
| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 1123           | 44 | 623   | 25 | 1015   | 40 | 550    | 1213 |

| RATED POWER             |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | TECHNOLOGY    |       | EMISSIONS |     |       | JET FUEL COMP. |
|-------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|---------------|-------|-----------|-----|-------|----------------|
| kW                      | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | Aspiration    | Turbo | NC        | R96 | MAR-1 |                |
| Non-emissions certified |     |      |            |     |      |             |             |       |      |               |       |           |     |       |                |
| 93*                     | 125 | 2500 | 93         | 125 | 2500 | 0%          | 448         | 330   | 1200 | Nat. Asp.     | -     | ■         | -   | -     | ■              |
| 94                      | 126 | 2200 | 94         | 126 | 2200 | 0%          | 546         | 402   | 1400 | Turbo         | Fixed | ■         | -   | -     | -              |
| 96                      | 129 | 2100 | 96         | 129 | 2100 | 0%          | 581         | 428   | 1200 | Turbo         | Fixed | ■         | -   | -     | -              |
| 110                     | 148 | 2100 | 110        | 148 | 2100 | 0%          | 650         | 443   | 1400 | Turbo         | Fixed | ■         | -   | -     | -              |
| 110                     | 148 | 2300 | 110        | 148 | 2300 | 0%          | 594         | 438   | 1300 | Turbo         | Fixed | ■         | -   | -     | -              |
| 116                     | 155 | 2500 | 116        | 155 | 2500 | 0%          | 578         | 426   | 1200 | Turbo         | Fixed | ■         | -   | -     | ■              |
| 117                     | 157 | 2200 | 117        | 157 | 2200 | 0%          | 589         | 434   | 1200 | Turbo         | Fixed | ■         | -   | -     | -              |
| 127*                    | 170 | 2500 | 127        | 170 | 2500 | 0%          | 606         | 447   | 1200 | Turbo         | Fixed | ■         | -   | -     | ■              |
| 106                     | 142 | 2200 | 106        | 142 | 2200 | 0%          | 614         | 453   | 1400 | Turbo         | Fixed | ■         | -   | -     | -              |
| 128                     | 172 | 2300 | 128        | 172 | 2300 | 0%          | 668         | 493   | 1400 | Turbo         | Fixed | ■         | -   | -     | -              |
| 138                     | 185 | 2400 | 138        | 185 | 2400 | 0%          | 656         | 484   | 1400 | Turbo         | Fixed | ■         | -   | -     | ■              |
| 143                     | 192 | 2200 | 143        | 192 | 2200 | 0%          | 749         | 553   | 1300 | Turbo Air-Air | Fixed | ■         | -   | -     | -              |
| 157                     | 210 | 2400 | 157        | 210 | 2400 | 0%          | 771         | 568   | 1400 | Turbo Air-Air | Fixed | ■         | -   | -     | ■              |

\*Power unit available with factory-mounted cooling package.

# 4.5X ILR

## >>> INDUSTRIAL LOW REGULATED ENGINES



Base Machine Codes: 4660CD, 4660PE

|              |                                      |
|--------------|--------------------------------------|
| ENGINE TYPE  | 4-cylinder, In-line, 4-valve         |
| DISPLACEMENT | 4.5L                                 |
| POWER RANGE  | 111 – 129 kW (149 – 173 hp)          |
| EMISSIONS    | EPA Tier 3/EU Stage III A equivalent |
| FUEL SYSTEM  | Electronic                           |
| EGR          | External cooled EGR                  |

| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 867            | 34 | 623   | 25 | 1055   | 42 | 517    | 1140 |

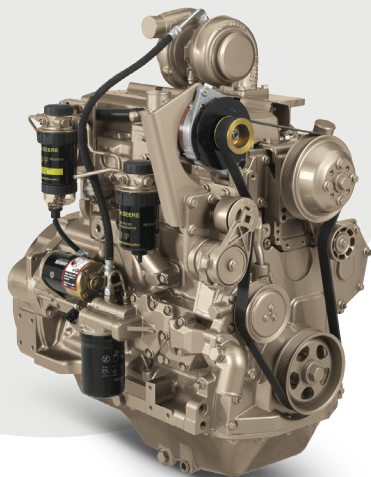
| RATED POWER                          |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | TECHNOLOGY    |       | EMISSIONS |     |       | JET FUEL COMP. |
|--------------------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|---------------|-------|-----------|-----|-------|----------------|
| kW                                   | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | Aspiration    | Turbo | NC        | R96 | MAR-1 |                |
| EPA Tier 3/EU Stage III A equivalent |     |      |            |     |      |             |             |       |      |               |       |           |     |       |                |
| 111                                  | 149 | 2000 | 116        | 156 | 1800 | 5%          | 645         | 476   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 116                                  | 155 | 2200 | 125        | 167 | 2000 | 8%          | 645         | 476   | 1400 | Turbo Air-Air | VGT   | ■         | ■   | -     | ■              |
| 116                                  | 155 | 2400 | 116        | 155 | 2400 | 0%          | 574         | 424   | 1400 | Turbo Air-Air | VGT   | ■         | -   | -     | ■              |
| 129                                  | 173 | 2400 | 129        | 173 | 2400 | 0%          | 645         | 476   | 1400 | Turbo Air-Air | VGT   | ■         | ■   | -     | ■              |





# 4.5P ILR

## >>> INDUSTRIAL LOW REGULATED ENGINES



Base Machine Codes: 4670CD, 4670PE

|              |                                      |
|--------------|--------------------------------------|
| ENGINE TYPE  | 4-cylinder, In-line, 2-valve         |
| DISPLACEMENT | 4.5L                                 |
| POWER RANGE  | 63 – 104 kW (85 – 140 hp)            |
| EMISSIONS    | EPA Tier 3/EU Stage III A equivalent |
| FUEL SYSTEM  | Electronic                           |
| EGR          | No EGR                               |

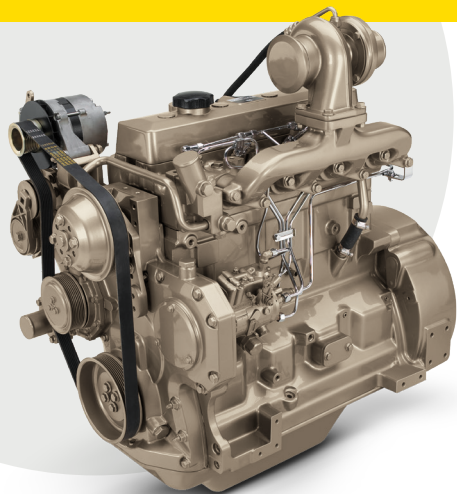
| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 860            | 34 | 612   | 24 | 1039   | 41 | 491    | 1083 |

| RATED POWER                          |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | TECHNOLOGY    |       | EMISSIONS |     |       | JET FUEL COMP. |
|--------------------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|---------------|-------|-----------|-----|-------|----------------|
| kW                                   | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | Aspiration    | Turbo | NC        | R96 | MAR-1 |                |
| EPA Tier 3/EU Stage III A equivalent |     |      |            |     |      |             |             |       |      |               |       |           |     |       |                |
| 63                                   | 84  | 2200 | 65         | 87  | 2000 | 3%          | 353         | 261   | 1600 | Turbo         | Fixed | ■         | -   | -     | -              |
| 63                                   | 84  | 2400 | 63         | 84  | 2400 | 0%          | 313         | 231   | 1600 | Turbo         | Fixed | ■         | -   | -     | -              |
| 74                                   | 99  | 2200 | 74         | 99  | 2200 | 0%          | 370         | 273   | 1600 | Turbo         | Fixed | ■         | -   | -     | -              |
| 74                                   | 99  | 2400 | 74         | 99  | 2400 | 0%          | 353         | 261   | 1600 | Turbo         | Fixed | ■         | -   | -     | -              |
| 86                                   | 115 | 2200 | 89         | 120 | 2000 | 3%          | 481         | 355   | 1500 | Turbo Air-Air | Fixed | ■         | -   | -     | -              |
| 86                                   | 115 | 2400 | 86         | 115 | 2400 | 0%          | 430         | 317   | 1500 | Turbo Air-Air | Fixed | ■         | -   | ■     | -              |
| 93                                   | 125 | 2200 | 99         | 133 | 2000 | 6%          | 525         | 387   | 1500 | Turbo Air-Air | Fixed | ■         | -   | -     | -              |
| 93                                   | 125 | 2400 | 93         | 125 | 2400 | 0%          | 481         | 355   | 1500 | Turbo Air-Air | Fixed | ■         | -   | -     | -              |
| 104                                  | 140 | 2400 | 104        | 140 | 2400 | 0%          | 525         | 387   | 1500 | Turbo Air-Air | Fixed | ■         | -   | ■     | -              |



# 4.5G ILR

## >>> INDUSTRIAL LOW REGULATED ENGINES



Base Machine Codes: 4680CD, 4680PE

|                     |                                                                 |
|---------------------|-----------------------------------------------------------------|
| <b>ENGINE TYPE</b>  | 4-cylinder, In-line, 2-valve                                    |
| <b>DISPLACEMENT</b> | 4.5L                                                            |
| <b>POWER RANGE</b>  | 55 – 104 kW (74 – 140 hp)                                       |
| <b>EMISSIONS</b>    | EPA Tier 3/EU Stage III A equivalent<br>Non-emissions certified |
| <b>FUEL SYSTEM</b>  | Mechanical                                                      |
| <b>EGR</b>          | No EGR                                                          |

| SPECIFICATIONS |    |       |    |        |    |        |     |
|----------------|----|-------|----|--------|----|--------|-----|
| Length         |    | Width |    | Height |    | Weight |     |
| mm             | in | mm    | in | mm     | in | kg     | lb  |
| 860            | 34 | 612   | 24 | 856    | 34 | 387    | 851 |

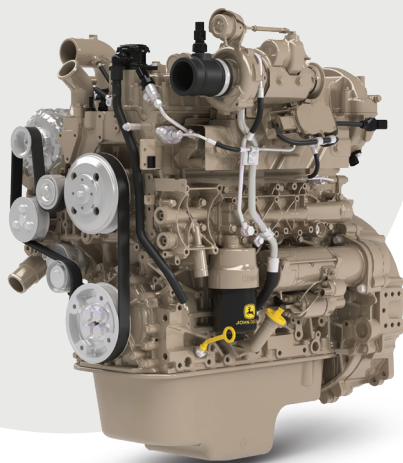
| RATED POWER                          |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | TECHNOLOGY    |       | EMISSIONS |     |       | JET FUEL COMP. |
|--------------------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|---------------|-------|-----------|-----|-------|----------------|
| kW                                   | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | Aspiration    | Turbo | NC        | R96 | MAR-1 |                |
| EPA Tier 3/EU Stage III A equivalent |     |      |            |     |      |             |             |       |      |               |       |           |     |       |                |
| 55                                   | 74  | 2400 | 55         | 74  | 2400 | 0%          | 265         | 195   | 1600 | Turbo         | Fixed | ■         | -   | -     | ■              |
| 56                                   | 75  | 2400 | 56         | 75  | 2400 | 0%          | 271         | 200   | 1700 | Turbo         | Fixed | ■         | -   | -     | -              |
| 60                                   | 80  | 2400 | 60         | 80  | 2400 | 0%          | 286         | 210   | 1700 | Turbo         | Fixed | ■         | -   | -     | ■              |
| 63                                   | 84  | 2400 | 63         | 85  | 2400 | 0%          | 302         | 223   | 1700 | Turbo         | Fixed | ■         | -   | -     | ■              |
| 74                                   | 99  | 2200 | 74         | 99  | 2200 | 0%          | 383         | 282   | 1600 | Turbo Air-Air | Fixed | ■         | -   | -     | ■              |
| 74                                   | 99  | 2400 | 74         | 99  | 2400 | 0%          | 366         | 270   | 1600 | Turbo Air-Air | Fixed | ■         | -   | -     | ■              |
| Non-emissions certified              |     |      |            |     |      |             |             |       |      |               |       |           |     |       |                |
| 55                                   | 74  | 2500 | 55         | 74  | 2500 | 0%          | 283         | 209   | 1200 | Nat. Asp.     | -     | ■         | -   | -     | ■              |
| 60*                                  | 80  | 2500 | 60         | 80  | 2500 | 0%          | 296         | 218   | 1400 | Nat. Asp.     | -     | ■         | -   | -     | ■              |
| 67                                   | 89  | 2200 | 67         | 89  | 2200 | 0%          | 374         | 276   | 1200 | Turbo         | Fixed | ■         | -   | -     | -              |
| 74                                   | 99  | 2500 | 74         | 99  | 2500 | 0%          | 372         | 274   | 1400 | Turbo         | Fixed | ■         | -   | -     | ■              |
| 78                                   | 105 | 2300 | 78         | 105 | 2300 | 0%          | 401         | 296   | 1300 | Turbo         | Fixed | ■         | -   | -     | -              |
| 85                                   | 114 | 2200 | 85         | 114 | 2200 | 0%          | 446         | 329   | 1500 | Turbo         | Fixed | ■         | -   | -     | -              |
| 86                                   | 115 | 2500 | 86         | 115 | 2500 | 0%          | 395         | 291   | 1400 | Turbo         | Fixed | ■         | -   | -     | ■              |
| 93*                                  | 125 | 2400 | 93         | 125 | 2400 | 0%          | 450         | 328   | 1400 | Turbo         | Fixed | ■         | -   | -     | ■              |
| 104                                  | 140 | 2400 | 104        | 140 | 2400 | 0%          | 498         | 367   | 1400 | Turbo Air-Air | Fixed | ■         | -   | -     | ■              |

\*Power unit available with factory-mounted cooling package.

# JD4G ILR

NEXT GEN

INDUSTRIAL LOW REGULATED ENGINES



Base Machine Code: 5010PE

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 4-cylinder, In-line, 2-valve |
| DISPLACEMENT | 3.9L                         |
| POWER RANGE  | 63 – 110 kW (84 – 148 hp)    |
| EMISSIONS    | UN ECE R96 (EU Stage III A)  |
| FUEL SYSTEM  | Electronic                   |
| EGR          | External cooled EGR          |

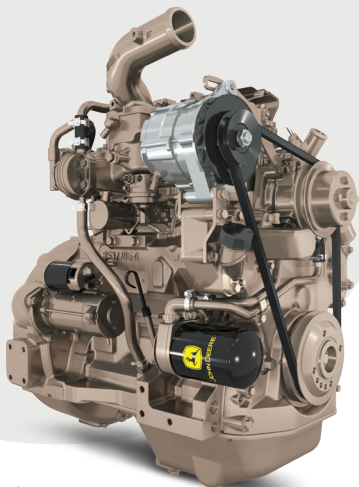
| SPECIFICATIONS |    |       |    |        |    |        |      |
|----------------|----|-------|----|--------|----|--------|------|
| Length         |    | Width |    | Height |    | Weight |      |
| mm             | in | mm    | in | mm     | in | kg     | lb   |
| 823            | 32 | 655   | 26 | 844    | 33 | 510    | 1124 |

| RATED POWER                 |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | TECHNOLOGY    |       | EMISSIONS |     |       | JET FUEL COMP. |
|-----------------------------|-----|------|------------|-----|------|-------------|-------------|-------|------|---------------|-------|-----------|-----|-------|----------------|
| kW                          | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | Aspiration    | Turbo | NC        | R96 | MAR-1 |                |
| UN ECE R96 (EU Stage III A) |     |      |            |     |      |             |             |       |      |               |       |           |     |       |                |
| 63                          | 84  | 2200 | 68         | 91  | 2000 | 8%          | 365         | 269   | 1300 | Turbo Air-Air | WGT   | -         | ■   | -     | -              |
| 75                          | 100 | 2200 | 81         | 109 | 2000 | 8%          | 433         | 319   | 1300 | Turbo Air-Air | WGT   | -         | ■   | -     | -              |
| 86                          | 115 | 2200 | 93         | 125 | 2000 | 8%          | 497         | 367   | 1300 | Turbo Air-Air | WGT   | -         | ■   | -     | -              |
| 93                          | 125 | 2200 | 100        | 134 | 2000 | 8%          | 537         | 396   | 1300 | Turbo Air-Air | WGT   | -         | ■   | -     | -              |
| 110                         | 148 | 2200 | 110        | 148 | 2200 | 0%          | 642         | 474   | 1300 | Turbo Air-Air | WGT   | -         | ■   | -     | -              |



# 2.9G ILR

## >>> INDUSTRIAL LOW REGULATED ENGINES



Base Machine Code: 4810CD

|              |                              |
|--------------|------------------------------|
| ENGINE TYPE  | 3-cylinder, In-line, 2-valve |
| DISPLACEMENT | 2.9L                         |
| POWER RANGE  | 43 – 52 kW (58 – 70 hp)      |
| EMISSIONS    | Non-emissions certified      |
| FUEL SYSTEM  | Mechanical                   |
| EGR          | No EGR                       |

| SPECIFICATIONS |    |       |    |        |    |        |     |
|----------------|----|-------|----|--------|----|--------|-----|
| Length         |    | Width |    | Height |    | Weight |     |
| mm             | in | mm    | in | mm     | in | kg     | lb  |
| 716            | 28 | 519   | 20 | 928    | 37 | 328    | 723 |

| RATED POWER             |    |      | PEAK POWER |    |      | POWER BULGE | PEAK TORQUE |       |      | TECHNOLOGY |       | EMISSIONS |     |       | JET FUEL COMP. |
|-------------------------|----|------|------------|----|------|-------------|-------------|-------|------|------------|-------|-----------|-----|-------|----------------|
| kW                      | hp | rpm  | kW         | hp | rpm  | %           | Nm          | lb-ft | rpm  | Aspiration | Turbo | NC        | R96 | MAR-1 |                |
| Non-emissions certified |    |      |            |    |      |             |             |       |      |            |       |           |     |       |                |
| 43*                     | 58 | 2500 | 43         | 58 | 2500 | 0%          | 193         | 141   | 1400 | Nat. Asp.  | -     | ■         | -   | -     | -              |
| 52*                     | 70 | 2500 | 52         | 70 | 2500 | 0%          | 239         | 176   | 1600 | Turbo      | Fixed | ■         | -   | -     | -              |

\*Power unit available with factory-mounted cooling package.





# EMERGENCY STATIONARY >>> LOW REGULATED ENGINES EPA TIER 3 (NSPS)

| RATED POWER     |     |      | PEAK POWER |     |      | POWER BULGE | PEAK TORQUE |       |      | TECHNOLOGY |               |       | EMISSIONS         | JET FUEL COMP. |
|-----------------|-----|------|------------|-----|------|-------------|-------------|-------|------|------------|---------------|-------|-------------------|----------------|
| kW              | hp  | rpm  | kW         | hp  | rpm  | %           | Nm          | lb-ft | rpm  | Controls   | Aspiration    | Turbo | EPA Tier 3 (NSPS) |                |
| <b>9.0X ELR</b> |     |      |            |     |      |             |             |       |      |            |               |       |                   |                |
| 205             | 275 | 2200 | 205        | 275 | 2200 | 0%          | 1201        | 886   | 1500 | Electronic | Turbo Air-Air | VGT   | ■                 | -              |
| 224             | 300 | 2200 | 224        | 300 | 2200 | 0%          | 1313        | 968   | 1500 | Electronic | Turbo Air-Air | VGT   | ■                 | -              |
| <b>6.8X ELR</b> |     |      |            |     |      |             |             |       |      |            |               |       |                   |                |
| 149             | 200 | 2400 | 149        | 200 | 2400 | 0%          | 744         | 549   | 1400 | Electronic | Turbo Air-Air | VGT   | ■                 | ■              |
| 168             | 225 | 2400 | 168        | 225 | 2400 | 0%          | 838         | 618   | 1400 | Electronic | Turbo Air-Air | VGT   | ■                 | ■              |
| <b>6.8P ELR</b> |     |      |            |     |      |             |             |       |      |            |               |       |                   |                |
| 116             | 155 | 2400 | 116        | 155 | 2400 | 0%          | 598         | 441   | 1500 | Electronic | Turbo Air-Air | Fixed | ■                 | -              |
| <b>4.5PELR</b>  |     |      |            |     |      |             |             |       |      |            |               |       |                   |                |
| 74              | 99  | 2400 | 74         | 99  | 2400 | 0%          | 353         | 261   | 1600 | Electronic | Turbo         | Fixed | ■                 | -              |
| 86              | 115 | 2400 | 86         | 115 | 2400 | 0%          | 430         | 317   | 1500 | Electronic | Turbo Air-Air | Fixed | ■                 | -              |
| <b>4.5G ELR</b> |     |      |            |     |      |             |             |       |      |            |               |       |                   |                |
| 55              | 74  | 2400 | 55         | 74  | 2400 | 0%          | 265         | 195   | 1700 | Mechanical | Turbo         | Fixed | ■                 | ■              |
| 60              | 80  | 2400 | 60         | 80  | 2400 | 0%          | 286         | 210   | 1700 | Mechanical | Turbo         | Fixed | ■                 | ■              |
| 63              | 85  | 2400 | 63         | 85  | 2400 | 0%          | 302         | 223   | 1700 | Mechanical | Turbo         | Fixed | ■                 | ■              |
| 74              | 99  | 2200 | 74         | 99  | 2200 | 0%          | 383         | 282   | 1600 | Mechanical | Turbo Air-Air | Fixed | ■                 | ■              |
| 74              | 99  | 2400 | 74         | 99  | 2400 | 0%          | 366         | 270   | 1600 | Mechanical | Turbo Air-Air | Fixed | ■                 | ■              |

Turbo = Turbocharged // Turbo Air-Air = Turbocharged air-to-air cooled // NSPS = New Source Performance Standards



# SERVICE AND SUPPORT

## *Here for you wherever you go*

The proven John Deere network of 9,000+ parts and service locations is here to fully support you near worksites and waterways around the world. Our dealers and distributors keep John Deere maintenance and repair parts in stock to get you back to work quickly. John Deere also offers fast delivery options to help ensure that you get the parts you need, when you need them.

Find your closest John Deere engine distributor or service dealer at **JohnDeere.com/Dealer**. Ask them about the parts you need, or visit **JohnDeere.com/EngineParts**.



## *Genuine John Deere Parts*

Original John Deere parts are your best choice for your newer machines.



## *Remanufactured Parts*

John Deere Reman parts help you cut costs, not quality.



## *Essentials by John Deere™ Parts*

Essential parts that provide an economical solution for John Deere equipment.



## *Maintenance Parts*

Protect your most valuable assets with Genuine John Deere batteries, oil, filters, grease, and coolants.



# 9,000+

JOHN DEERE PARTS AND SERVICE LOCATIONS

# SERVICE AND SUPPORT

## Warranty support when you need it

Every John Deere engine comes with a 2-year/2,000-hour standard warranty. This warranty applies not only to the new OEM engine but also to most John Deere parts and accessories installed by a John Deere engine distributor at the time of initial delivery.\* Registering your engine at [JohnDeere.com/OEMWarranty](http://JohnDeere.com/OEMWarranty) gives us the information needed to stock the right service parts, maintenance products, and servicing tools.†

\*When sold and installed by John Deere or its authorized dealers and distributors.

†See specific OEM product warranty language for applicable terms and conditions.

Note: The 2-year/2,000-hour standard warranty and OEM engine registration may not be available in all countries.



## Equipment Mobile app

Scan or enter your John Deere engine serial number to access basic engine information, view operator manuals, order parts, and more. Sign in or create an account to pair your JDLink™ modem and access additional resources, including emissions certificates.

# 2/2,000

2-YEAR/2,000-HOUR STANDARD WARRANTY



# SERVICE AND SUPPORT



## **John Deere Connected Support™**

### **Stay Connected to What Counts**

Unlock proactive engine support and help avoid unplanned downtime with John Deere Connected Support remote monitoring and diagnostics.\* This technology allows John Deere service experts to maximize the customer experience — utilizing machine health monitoring, predictive alerts, and remote diagnostics.



## **PowerGard™ Protection Plan**

### **Extend Your Engine Warranty**

Get extended warranty coverage for up to five years or 10,000 hours with John Deere PowerGard Protection Plan.\* It also protects John Deere components and accessories installed by an authorized John Deere dealer or distributor.



## **OEM Engine Maintenance Plans**

### **Protection That Lasts**

John Deere OEM engine maintenance plans are the easiest way to get complete service managed by engine experts. Whether you have a new or used John Deere engine, you can get peace of mind, protect your investment, and lock in your maintenance costs.

*\*Contact your John Deere dealer or distributor for availability in certain countries and on specific engine models.*



## **Engine registration**

Ready to unlock the benefits of the John Deere Lifecycle Service Solution? To get started, you'll need to register your John Deere engine by scanning the QR code found on your engine's primary fuel filter, fuel filter housing, or oil filter.

You can also visit **ProductRegistration.Deere.com** and enter your serial number manually to register your engine.





# CONVERSIONS

## *From English to SI (Metric)*

### **Torque**

$\text{Nm} = 1.3558 \times \text{lb-ft}$

$\text{lb-ft} = .73756 \times \text{Nm}$

$\text{Nm} = (9549 \times \text{kW})/\text{rpm}$

$\text{lb-ft} = (5252 \times \text{hp})/\text{rpm}$

### **Power**

$\text{kW} = \text{hp} \times .746$

$\text{hp} = \text{kW} \times 1.341$

$\text{kW} = (\text{torque (Nm)} \times \text{rpm})/9549$

$\text{hp} = (\text{torque (lb-ft)} \times \text{rpm})/5252$

### **Torque rise**

% torque rise = max torque/torque  
at rated speed

### **Power bulge**

Power bulge = maximum power/  
power at rated speed

**Nm** = Newton meters

**lb-ft** = foot-pounds

**kW** = kilowatts

**hp** = horsepower





# JOHN DEERE

*This literature has been compiled for worldwide circulation. While general information, pictures and descriptions are provided, some illustrations and text may include product options and accessories NOT AVAILABLE in all regions. PLEASE CONTACT YOUR LOCAL AUTHORIZED JOHN DEERE DEALER OR DISTRIBUTOR FOR DETAILS. John Deere reserves the right to change specification and design of all products described in this literature without notice. Copyright 2026 Deere & Company.*

