

## SPECIFICATIONS

|                       |                        |           |
|-----------------------|------------------------|-----------|
| Thermodynamic Cycle   | Diesel 4 stroke        |           |
| Air Handling          | TAA                    |           |
| Bore x Stroke         | millimeters            | 135 x 150 |
| Total Displacement    | liters                 | 12.9      |
| Valves per cylinder   | number                 | 4         |
| Cooling System        | liquid                 |           |
| Direction of Rotation | viewed facing flywheel | CCW       |
| Compression ratio     | 16.5:1                 |           |
| Injection System      | ECR                    |           |
| Arrangement           | 6L                     |           |

## PERFORMANCES

|   |                |                    |
|---|----------------|--------------------|
| Peak power  | kW (HP) @ rpm  | 331 ( 450 ) @ 1900 |
| Peak torque   | Nm (kgm) @ rpm | 2200 (224) @ 1000  |
| High idle speed   | rpm            | 2320               |
| Low idle speed  | rpm            | ±530               |
| Minimum starting temperature without auxiliaries        | °C             | -15°               |
| Oil and oil filter maintenance interval for replacement | kilometer      | -                  |

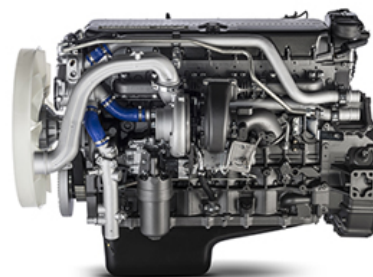
## STANDARD CONFIGURATION

|   |   |                               |
|---|---|-------------------------------|
| Flywheel housing                                | type                                      | SAE 1 - aluminium             |
| Flywheel size                                   | inch                                      | 17"                           |
| Intake manifold location                        | middle high / right side                  |                               |
| Exhaust manifold location                       | middle high / left side / back            |                               |
| Turbocharger                                    | ry with Waste Gate valve and exhaust flap |                               |
| Turbocharger location                           | Center / left side                        |                               |
| Fan transmission ratio                          | 1.3:1                                     |                               |
| Distance between fan - crankshaft centers       | millimeters                               | X=-20 Y=225                   |
| Fuel filter                                     | number                                    | single cartridge - left side  |
| Oil filter                                      | number                                    | single cartridge - right side |
| Oil sump  | suspended sheet steel / front sump        |                               |
| Oil vapours blow-by circuit                     | close case ventilation                    |                               |
| Oil heat exchanger                              | integrated into the block                 |                               |
| Oil filler                                      | on valve cover                            |                               |
| Starter   | 24V - 5.5kW                               |                               |
| Alternator                                      | 24 V - 90 A                               |                               |
| Engine stop device                              | by electronic control unit                |                               |
| Wiring harness                                  | interface wiring loom with accessories    |                               |
| Painting color                                  | grey                                      |                               |
| Air compressor                                  | 352                                       |                               |
| Hydraulic steering pump                         | liters-minute                             | 16 - 20 - 25                  |
| Maximum torque available from crankshaft pulley | newton-meter                              | 800.000                       |

## WEIGHT AND DIMENSIONS

|            |            |                   |
|------------|------------|-------------------|
| Dimensions | LxWxH (mm) | 359 x 1034 x 1171 |
| Dry Weight | Kg         | 1310              |

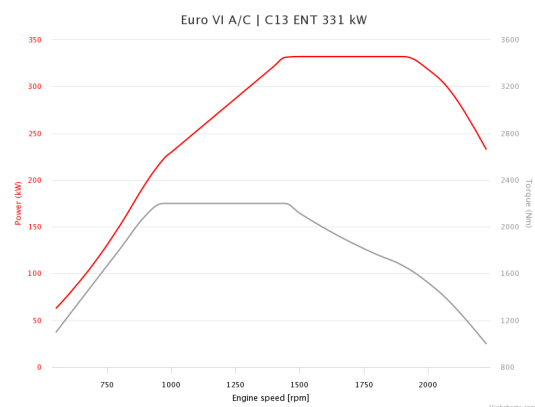
DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



ON ROAD

IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

## POWER & TORQUE



## NOT INCLUDED IN STANDARD CONFIGURATION

|  |            |               |
|--|------------|---------------|
| Power Take Off (PTO)                                 | -          |               |
| PTO - transmission ratio                             | 1.14:1     |               |
| PTO - maximum available torque                       | 800 Nm - - |               |
| Battery - minimum capacity recommended               | Ah         | 473 Ah (24 V) |
| Battery - minimum cold cranking capacity recommended | Ah         | 24 V - 662 Ah |

## LEGEND

| Arrangement               | Air Handling                        | Turbocharger                         | Injection System               | Emission standard                               | Exhaust System                      |
|---------------------------|-------------------------------------|--------------------------------------|--------------------------------|---|-------------------------------------|
| L (in line)               | TCA (Turbocharged with aftercooler) | WG (Wastegate)                       | M (Mechanical)                 | EEV (Enhanced Environmentally friendly Vehicle) | EGR (Exhaust Gas Recirculation)     |
| V (90° "V" configuration) | TC (Turbocharged)                   | VGT (Variable Geometry Turbocharger) | ECR (Electronic Common Rail)   |   | SCR (Selective Catalytic Reduction) |
|                           | NA (Naturally Aspirated)            | TST (Twin Stage Turbocharge)         | EUI (Electronic Unit Injector) |   |                                     |
|                           |                                     |                                      | MPI (Multi Point Injection)    |   |                                     |

FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT INDUSTRIAL SALES NETWORK OR VISIT OUR SITE [WWW.FPTINDUSTRIAL.COM](http://WWW.FPTINDUSTRIAL.COM)

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE



AFTER TREATMENT SYSTEM

HI-eSCR After Treatment System includes Diesel Oxidation Catalyst (DOC), Diesel Particulate Filter (DPF), Selective Catalytic Reduction (SCR) and Clean-Up Catalyst (CUC)

ON ROAD

LEGEND

| Arrangement               | Air Handling                        | Turbocharger                         | Injection System               | Exhaust System                      |
|---------------------------|-------------------------------------|--------------------------------------|--------------------------------|-------------------------------------|
| L (in line)               | TCA (Turbocharged with aftercooler) | WG (Wastegate)                       | M (Mechanical)                 | EGR (Exhaust Gas Recirculation)     |
| V (90° "V" configuration) | TC (Turbocharged)                   | VGT (Variable Geometry Turbocharger) | ECR (Electronic Common Rail)   | SCR (Selective Catalytic Reduction) |
|                           | NA (Naturally Aspirated)            | TST (Twin Stage Turbocharge)         | EUI (Electronic Unit Injector) |                                     |
|                           |                                     |                                      | MPI (Multi Point Injection)    |                                     |

FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT INDUSTRIAL SALES NETWORK OR VISIT OUR SITE [WWW.FPTINDUSTRIAL.COM](http://WWW.FPTINDUSTRIAL.COM)

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

