

# FORD ECOTORQ 13E42-13E50

309-368 kW (420-500 PS)

Stage V, Tier 4f emission

For non-road mobile machinery



## Features

### Low cost of ownership

Through world class fuel economy, long maintenance interval and use of widely available maintenance parts, Ecotorq engines care about your business.

### High uptime

Single engine architecture and powerful diagnostics make this engine easier to fix and reduce downtime.

### Reliable and durable

Based on a field proven design, this is an engine you can count on for your toughest jobs without compromising on performance.

## Specification

Model	13E42	13E50
Cylinders	6 in-line	
Displacement, liters (in <sup>3</sup> )	12,7 (775)	
Bore and stroke, mm (in)	130 x 160 (5,12 x 6,3)	
Compression ratio	17 : 1	
Max. power, kW (PS)	309 (420)	368 (500)
at speed, rpm	1.800	1.400-1.800
Max. torque, Nm (lb.ft)	2.150 (1.586)	2.500 (1.844)
at speed, rpm	1.000-1.300	1.000-1.400
Idling speed, rpm	550	
Combustion system	Direct injection	
Liner type	Wet liner	
Aspiration	Turbocharged aftercooled	
Cooling	Liquid, 50:50 water glycol mix	
Flywheel dimensions	SAE 1 housing / SAE 14 in. flywheel	
Rotation	Counter clockwise (viewed from flywheel)	
Dry weight, kg (lb)	1.175 (2.590)	
Lubrication oil capacity, liters (in <sup>3</sup> )	46 (2.807)	
CAN protocol	SAE J1939	
Emission technology	Cooled EGR, box type DOC+DPF+SCR	

## Standard

- Electronically controlled
- High pressure common rail
- Cast iron engine block
- Alloy steel crank with induction hardened and polished bearing surfaces
- Friction welded steel pistons
- Variable geometry turbocharger
- Spin-on, 2x full flow fuel filter
- Spin-on, 2x full flow oil filter
- Spin-on coolant filter
- Integrated oil cooler
- Deep front oil sump
- Easy access oil dipstick
- Closed crankcase ventilation
- Alternator 130 A
- Starter 6,5 kW
- Belt driven cooling fan interface
- SAE 5W/30 lubrication oil
- Emission components (exhaust after treatment box, sensors, Adblue system)

## Optional

- Air cleaner
- 75 L Adblue tank
- 630 cc air compressor
- A/C compressor
- Fuel pre-filter with water separation and water-in-fuel sensor
- Grid heater for intake air
- Cooling pack with all necessary installation parts

This leaflet provides information about the current technical specifications and the standard or optional equipment available as of the date it was issued. Specifications may be changed from time to time without prior notice. For this reason, please consult us to obtain updated and accurate information on the engines you wish to buy. The images used in this leaflet may be different from the engines on sale. The technical specifications provided herein are for standard engines. Selection of any optional equipment might cause differences from these specifications.

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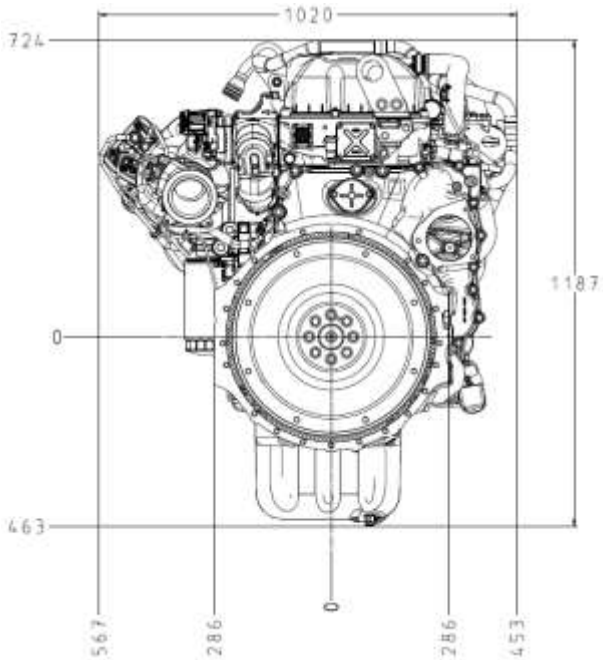
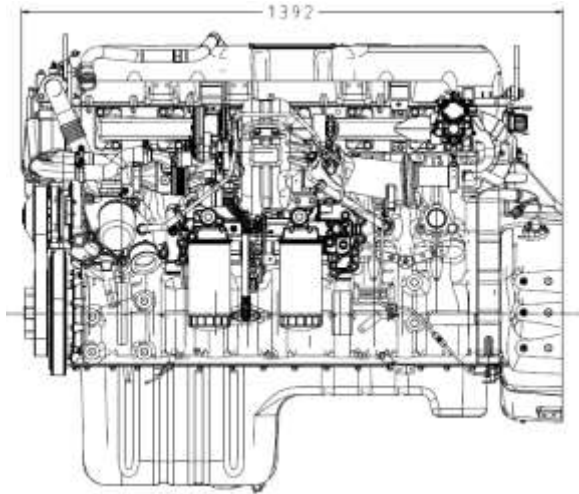
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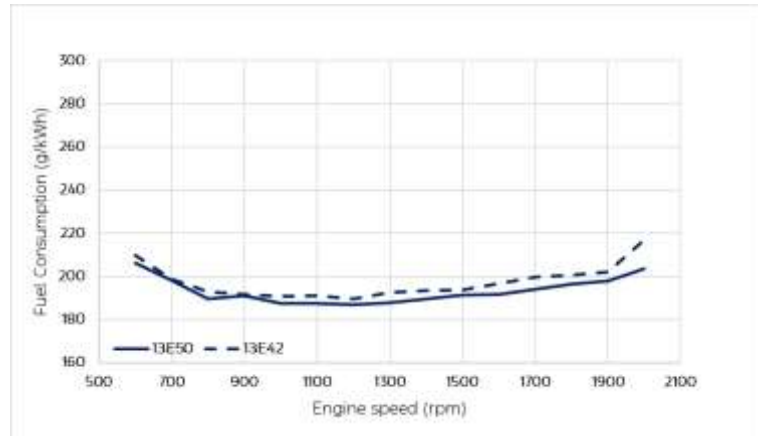
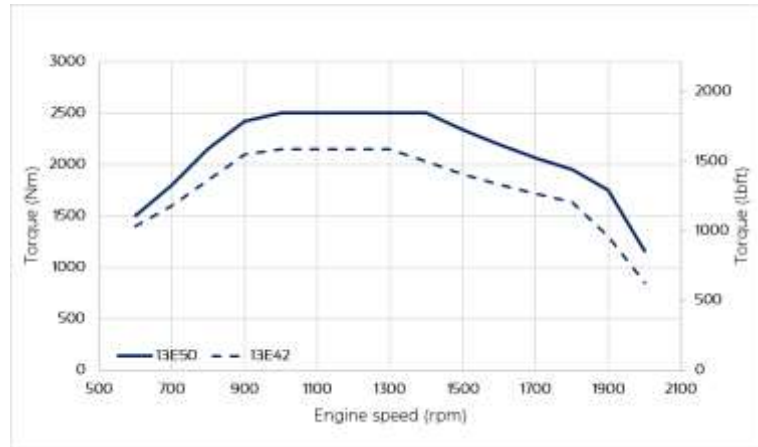
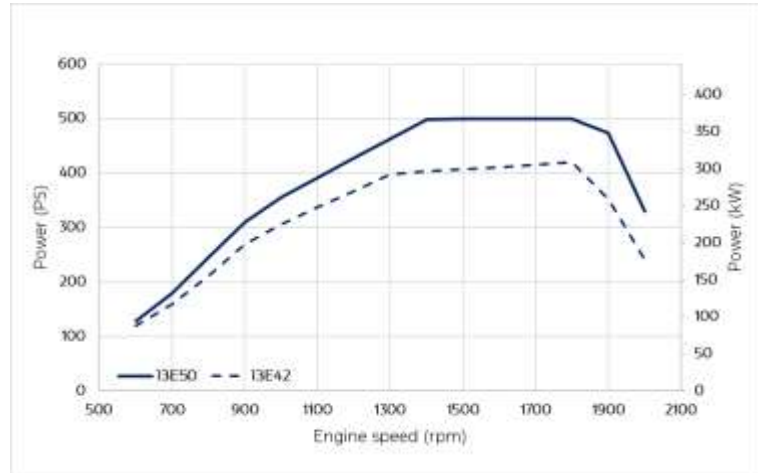
## Dimensions

All dimensions are in mm.



## Performance

According to ISO 3046 and ISO 8178



For more information please contact [ecotorq@ford.com.tr](mailto:ecotorq@ford.com.tr) or visit our site [www.fordotosan.com.tr/en](http://www.fordotosan.com.tr/en)

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