

# zoom



## GENUINE TURBOCHARGERS

MAXIMIZE YOUR POWER  
REDUCE YOUR MACHINE CONSUMPTION

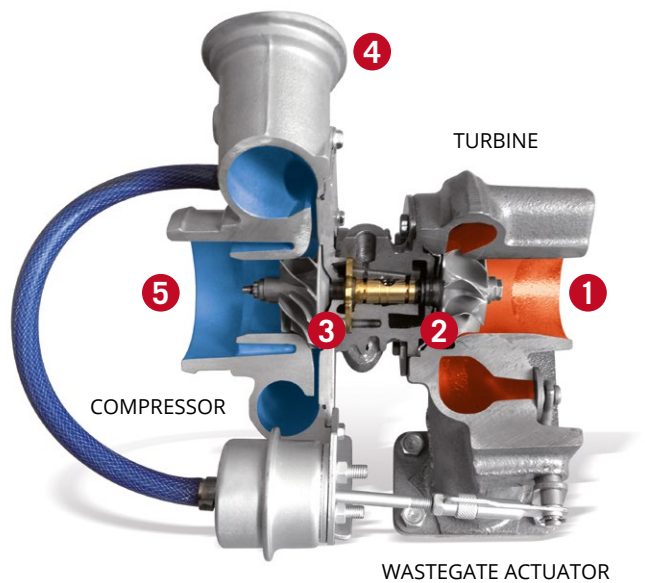
CASE IH MAKES THE DIFFERENCE.  
LET'S SEE HOW.

**GENUINE**PARTS  
HIGH PERFORMANCE

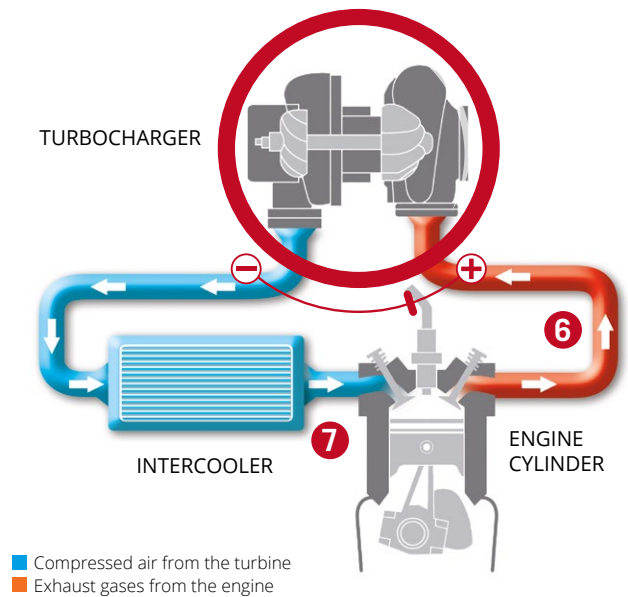
**CASE IH**

# The key role of the turbocharger.

The turbocharger is a mean to **increase the power** of an engine.



- 1 Exhaust gas outlet
- 2 Exhaust gas turbine
- 3 Air compressor
- 4 Compressed air to engine
- 5 Fresh air inlet

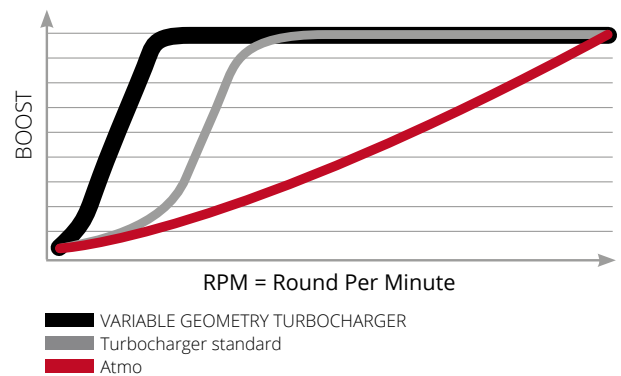


- 6 Exhaust gas activates the turbine
- 7 Compressed air increases the level of oxygen and the pressure in the combustion chamber

## EVOLUTION: VARIABLE GEOMETRY TURBOCHARGER.

THE VGT INCREASES ENGINE PERFORMANCE ALSO AT LOW SPEED.

## COMPARISON OF DIFFERENT TYPES OF TURBOCHARGERS



# Why choose Genuine CASE IH turbochargers?

It is essential that the turbocharger is carefully balanced and made of special high temperature resistant materials. In fact the speed of the turbine can exceed 120.000 rpm.

GENUINE PRODUCT

QUALITY PRODUCT

PERFECT ADAPTATION TO YOUR MACHINE

+ PERFORMANCE

+ LONGEVITY

- CONSUMPTION



The Genuine CASE IH turbocharger is carefully balanced and made of special high temperature resistant materials.



**PERFORMANCE**  
VEHICLE POWER  
MAINTAINED



**LONGEVITY**  
THANKS TO HIGH  
SPECIFICATION



**FUEL**  
CONSUMPTION  
OPTIMIZED BOOST



**SECURITY**  
AVOID RISK OF FAILURE  
AT ANY TIME UPON  
INSTALLATION

## GENUINE VERSUS COUNTERFEIT

### ENGINE PERFORMANCE



#### FEATURES

Engine performance directly depends on:

- High quality of turbo response
- Optimised diesel fuel/air mix



#### RISK

- Excessive temperatures and low flow of exhaust gas are damaging the turbo as well as the engine

**+20%** ORIGINAL ENGINE PERFORMANCE  
VERSUS COUNTERFEIT



### MAINTENANCE COSTS



**GENUINE** = 4X MORE ECONOMICAL THAN COUNTERFEIT

**COUNTERFEIT**






### SPOT THE DIFFERENCE

ITEMS	GENUINE	COUNTERFEIT
Name plate	Original supplier code + manufacturing origin	Wrong supplier code + suspicious origin
Screws	No washers	Washers





## Recommendations for use

 THE ENGINE DOES NOT DELIVER ENOUGH POWER	 THE TURBOCHARGER MAKES NOISE	 BLACK OR BLUE EXHAUST GAS	 EXCESSIVE OIL ENGINE CONSUMPTION	 OIL LEAK TO THE SIDE OF: <input type="checkbox"/> air intake <input type="checkbox"/> turbine	CAUSES	RECOMMENDATIONS
✓		✓		✓	Restricted/inefficient exhaust system	Replace damaged parts as required with CASE IH Genuine replacements
✓		✓	✓	✓	Dirty engine air filter	Replace element according to CASE IH recommendations
✓	✓	✓	✓		Air leak between intake manifold and engine	Replace gaskets or tighten fasteners as required
✓	✓	✓	✓	✓	Foreign object in exhaust manifold (from engine)	Remove obstructions

