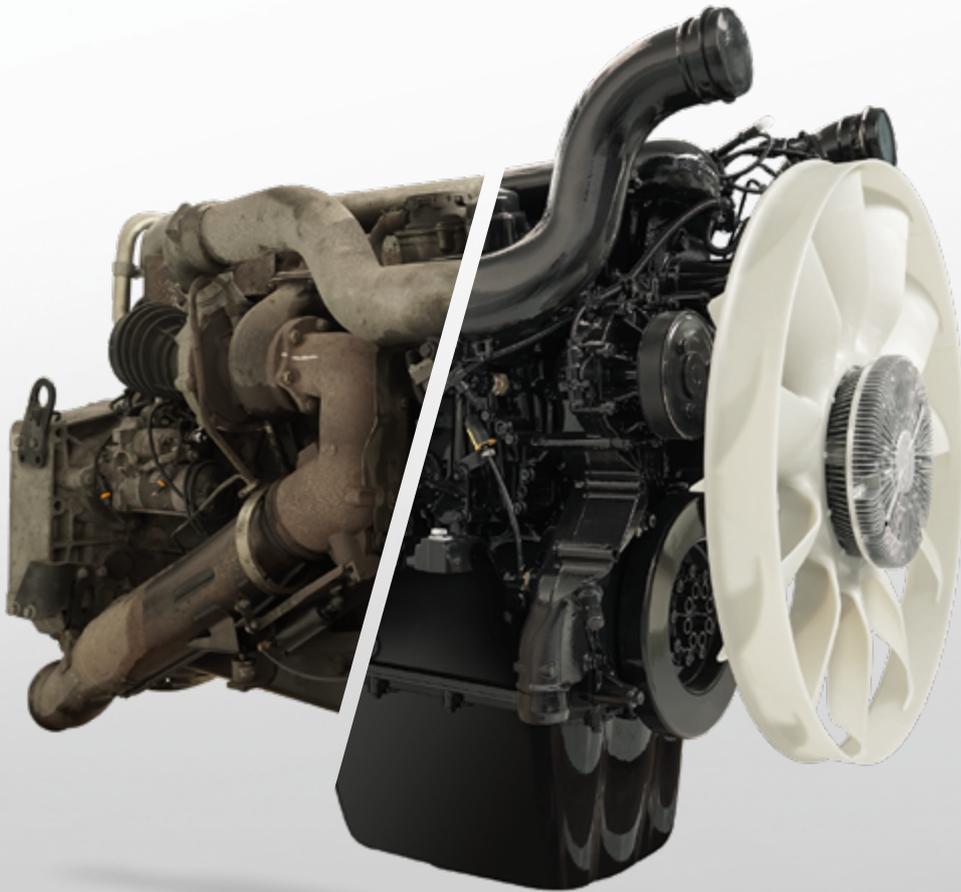


MAN GENUINE ENGINES ECOLINE⁺

One engine – two lives.



OFFER
for older MAN trucks
as well as MAN and
NEOPLAN buses



PLUS FACTOR: UP TO 30% COST SAVINGS.*



Repairs with MAN Genuine Engines ecoline+ based on the current market value.

With this range specifically for older vehicles, we are providing a particularly cost-effective and ecological solution for MAN trucks as well as MAN and NEOPLAN buses.

How MAN Genuine Engines ecoline+ are made:

The old engines are disassembled, cleaned and tested in the Nuremberg engine plant. The MAN Genuine Engines ecoline+ are then rebuilt using the remanufactured components and a defined range of new MAN Genuine Parts. As a basic principle, all essential wear parts are replaced. The remanufactured components meet all the quality requirements of MAN Genuine Parts. The engine is only approved after successfully passing a run on the test bench.

* Comparing the MAN Genuine basic engine

SUSTAINABLE REMANUFACTURING.



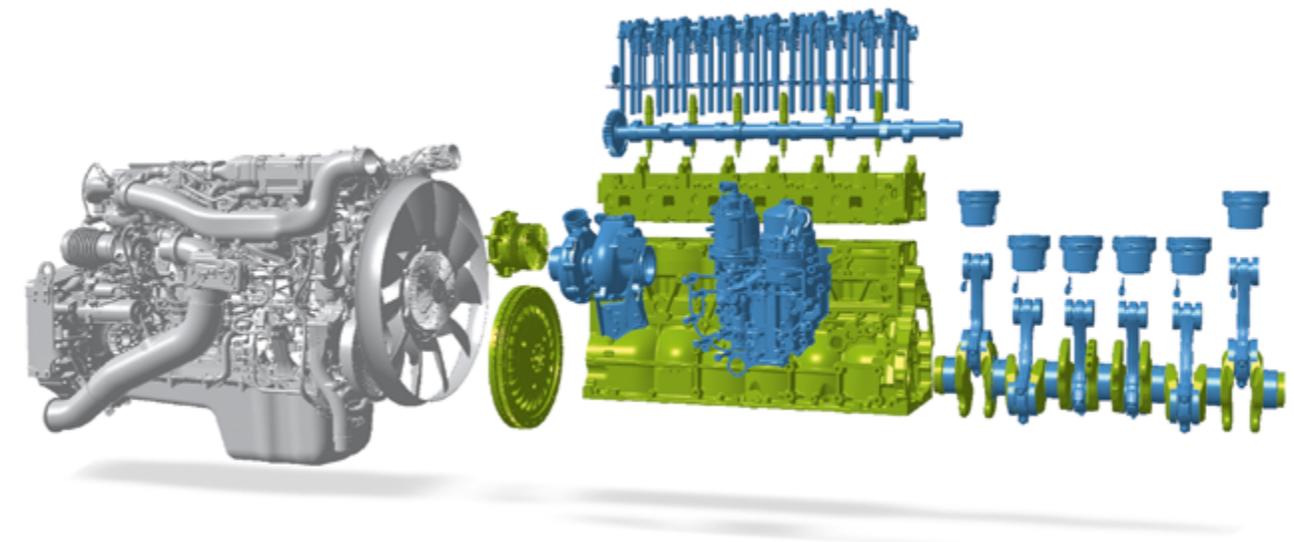
These parts are **remanufactured**:

- + Crankcase
- + Cylinder head
- + Crankshaft
- + Injectors
- + Flywheel
- + Coolant pump



These wear parts are **replaced**:

- + Pistons
- + Oil module
- + Turbocharger
- + Camshaft
- + Valves
- + Connecting rods
- + Bearings
- + Bolts and seals



The blue parts in the exploded view are replaced and the green parts are reconditioned.

YOUR BENEFITS AT A GLANCE:

- A solution adapted to the **vehicle age**
- **Cost-effective alternative** to MAN Genuine basic engine: up to 30% price advantage
- **Low downtimes** due to **short delivery times**
- Retention of the **vehicle value**
- **Remanufacturing and quality inspection** of the engine in the MAN Nuremberg plant according to strict standards
- **Technical innovations** feed constantly into the remanufacturing process
- Sales of the **MAN Genuine Engines ecoline*** via the well-developed **MAN workshop network**
- Fitting of the engine by **highly qualified and experienced MAN workshop staff** who work according to defined specifications
- **Environmental sustainability**
- **24-month warranty**



MAN GENUINE ENGINES COMPARED.

	Portfolio	
	MAN Genuine basic engine	MAN Genuine Engine ecoline*
	New engine that requires additional ancillary units in order to run.	A previously used engine that has been rebuilt in the framework of the factory remanufacturing process with extensively remanufactured components and a defined range of new MAN Genuine Parts.
Delivery scope compared to complete engine	ca. 80%	ca. 80%
New parts installed	100%	approx. 70%
Remanufactured parts installed	0%	30%
Cost saving compared with MAN Genuine basic engine	-	- up to 30%
Settlement of the old engine	-	Charge
Ready for shipment	~ 2 working days	~ 2 working days

! A defined range of components from the engine peripherals is transferred from the old engine and is reused in the MAN Genuine Engine ecoline*. A charge may be possible depending on the condition of the old engine that has to be returned. Please contact your MAN service outlet for further information.

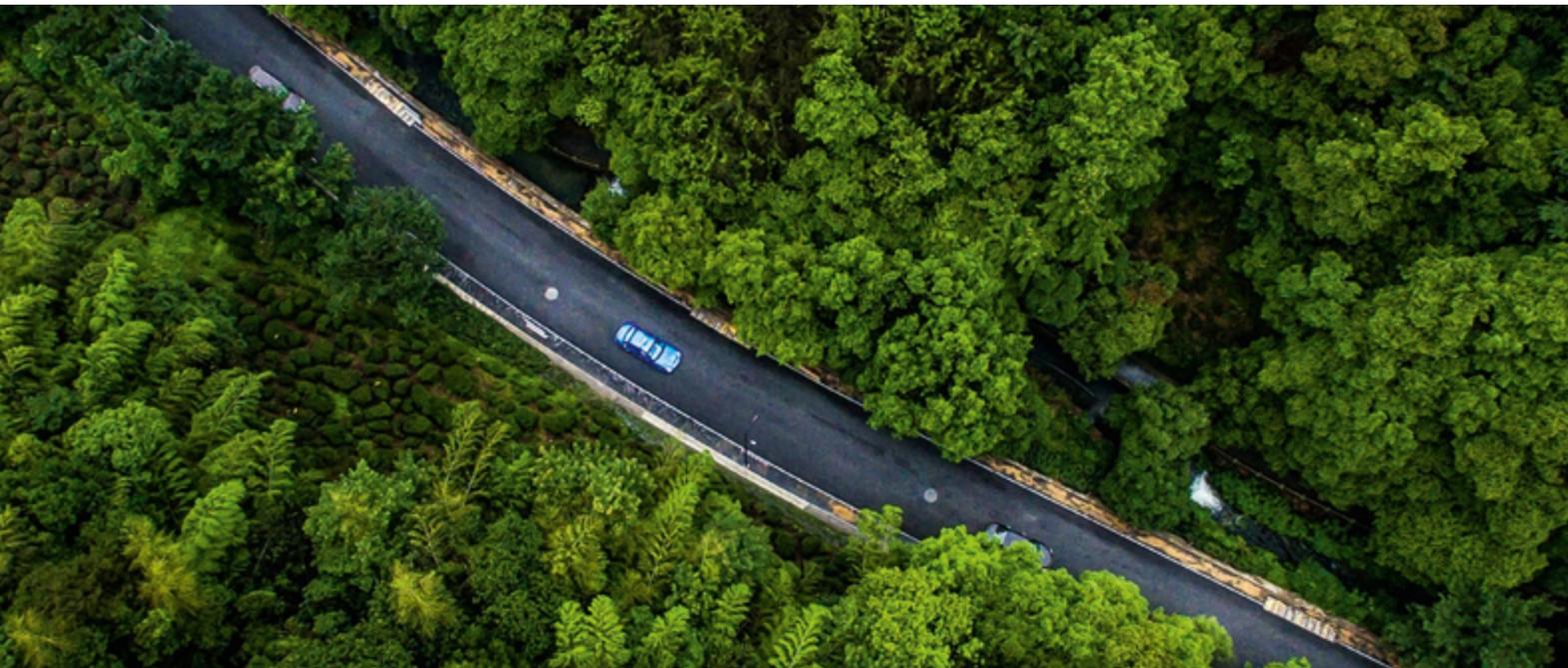
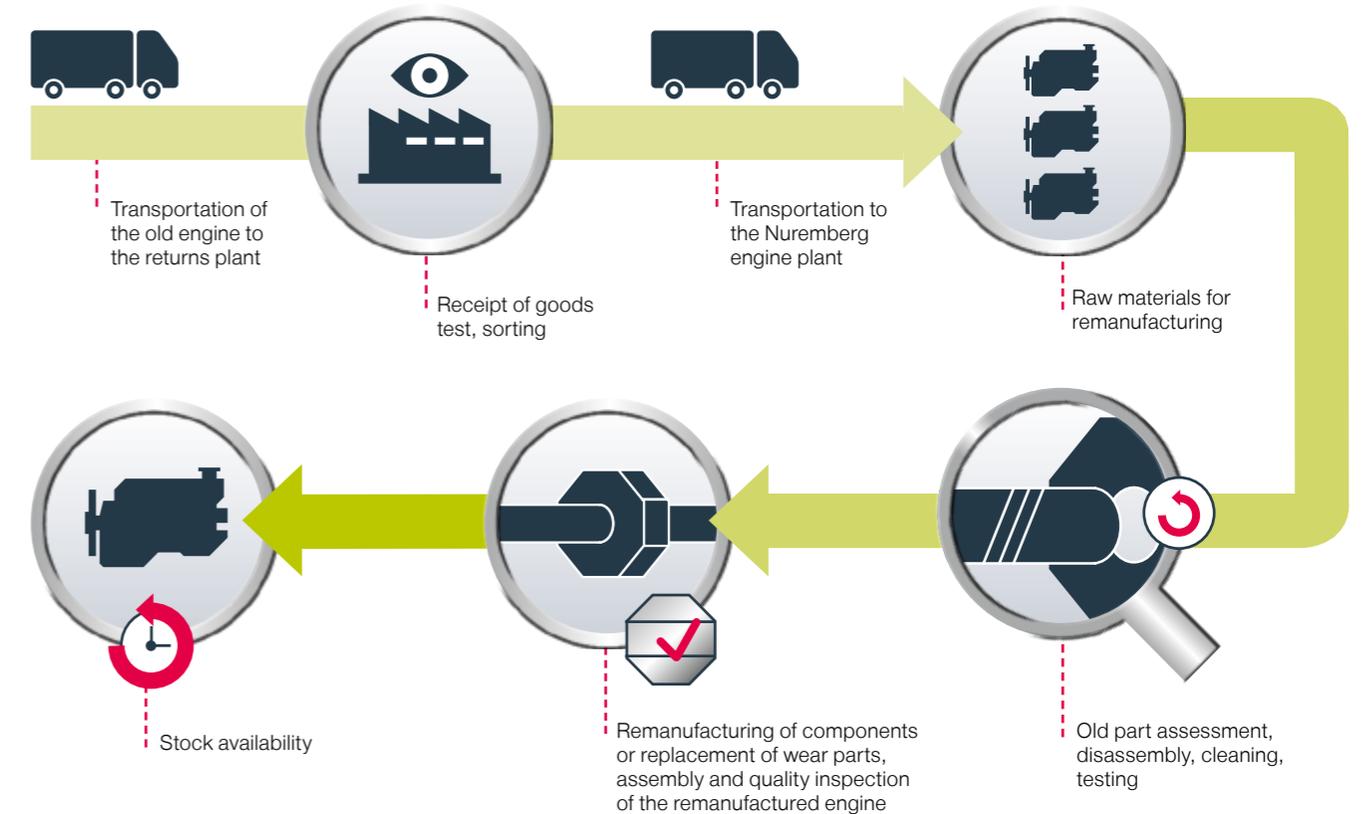
PLUS POINTS FOR YOUR COMPANY AND THE ENVIRONMENT.

MAN Genuine Engines ecoline* are also good for the environment since remanufacturing of old engines saves resources and is sustainable because a defined range of old engine components is reused. This means the following plus points for the environment:

- + Important resources are conserved by reusing old parts
- + Energy is saved, because remanufacturing parts requires less outlay than producing them from scratch
- + Reduced carbon emissions, because fewer new parts need to be produced

 MAN Genuine Engines ecoline* are environmentally sustainable.

THE REMANUFACTURING PROCESS.



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