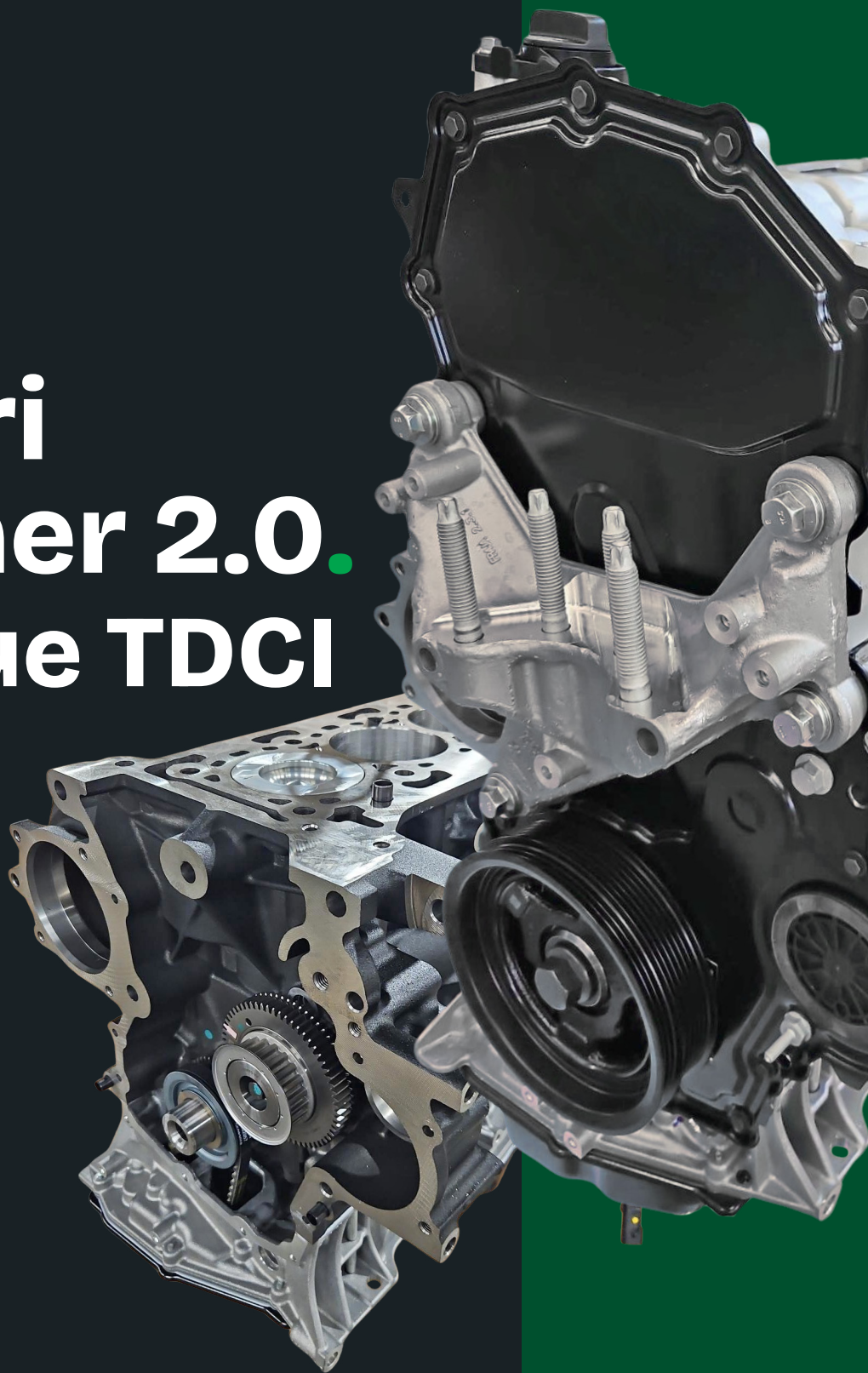




Motori Panther 2.0. Ecoblue TDCI



Engines Panther 2.0 Ecoblue TDCI.
Moteurs Panther 2.0 Ecoblue TDCI.
Motores Panther 2.0 Ecoblue TDCI.
Motoren Panther 2.0 Ecoblue TDCI.

ITA

Il marchio **Mec-Diesel**, nato nel 1983, da subito si specializza nei ricambi per motori. Con il passare degli anni, si concentra sullo sviluppo di componenti essenziali per i motori endotermici, mantenendo elevati standard qualitativi grazie a investimenti in ricerca e selezione accurata dei fornitori.

Mec-Diesel è un marchio distribuito da Dubhe Srl.

Dubhe è il distributore italiano specializzato in parti di ricambio per autocarro, veicolo commerciale, bus e rimorchio, con una forte specializzazione sui ricambi motore, cambio e differenziale. Con oltre 50 anni di esperienza, il gruppo Dubhe offre ai propri clienti una vasta gamma di prodotti sia con marchio proprio che premium.

Grazie all'ampia conoscenza tecnica, produttiva e commerciale delle aziende fondatrici, (Mec-Diesel S.r.l., C.E.I. Costruzione Emiliana Ingranaggi S.p.A. e Lema S.r.l.) Dubhe garantisce elevati standard qualitativi.

ENG

The brand, born in 1983, is specialized in engine spare parts. Over the years, it focused on the development of spare parts for internal combustion engines, maintaining high quality standards through investments in research and careful supplier selection.

Mec-Diesel is a private label distributed by Dubhe Srl.

Dubhe is an Italian distributor specialized in spare parts for trucks, commercial vehicles, buses and trailers, with a strong focus on engines, gearboxes and differentials. With over 50-years of history, Dubhe Group offers a wide product range under private labels and premium brands.

Thanks to the technical, production and commercial knowledge of the founding companies, (Mec-Diesel S.r.l., C.E.I. Construction Emiliana Ingranaggi S.p.A. and Lema S.r.l.), Dubhe ensures high quality standards.

Indice sezioni
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Sezione A Section A	Guida all'identificazione motori applicazione PANTHER 2.0 ECOBLUE TDCI <i>Engine Identification Guide PANTHER 2.0 ECOBLUE TDCI Application</i>	.9
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INTRODUZIONE TECNICA TECHNICAL INTRODUCTION

Il Ford Panther è un motore turbodiesel moderno ed efficiente, ampiamente utilizzato su Transit, Custom, Kuga, Focus e Ranger. Tuttavia, è noto per tre gravi punti critici:

- Cinghia a bagno d'olio:

La cinghia di distribuzione è immersa nell'olio motore. Le frequenti rigenerazioni del FAP diluiscono l'olio con il gasolio, sfaldando la cinghia. I detriti intasano la pompa dell'olio, causando perdita di pressione o interruzione del passaggio, con conseguente rottura del motore.

The Ford Panther is a modern, high-efficiency turbodiesel engine widely used in the Transit, Transit Custom, Kuga, Focus, and Ranger models. However, it is well known for three major vulnerabilities.

- Wet Timing Belt:

The timing belt runs submerged in engine oil. Frequent DPF regeneration cycles can cause fuel dilution of the oil, causing belt degradation. Belt debris may clog the oil pump, leading to oil pressure loss or complete blockage of the lubrication system, which ultimately causes engine failure.



- Crepe sui pistoni (Cilindri 3 e 4):

A causa dell'eccessivo calore accumulato nella parte posteriore del motore (vicino a turbina e FAP), i pistoni 3 e 4 sono soggetti a forte stress termico e rischiano di spaccarsi.

- Piston cracking (Cylinders 3 and 4):

Due to excessive heat build-up at the rear of the engine (near the turbocharger and DPF), pistons 3 and 4 are exposed to high thermal stress and may develop cracks or fail.

- AdBlue e Iniettori:

Soffre di cristallizzazione dell'AdBlue (con blocco dell'avviamento) e, nelle prime serie, di iniettori di gasolio difettosi.

- AdBlue System and Fuel Injectors:

The engine can suffer from AdBlue crystallization, which causes a no-start condition. Additionally, early production versions are prone to defective fuel injectors.

Come evitare criticità:

Cambiare l'olio ogni 10.000-15.000 km usando solo la specifica corretta, evitare l'uso solo cittadino e sostituire preventivamente la distribuzione a 100.000 km o 5 anni.

How to prevent these issues:

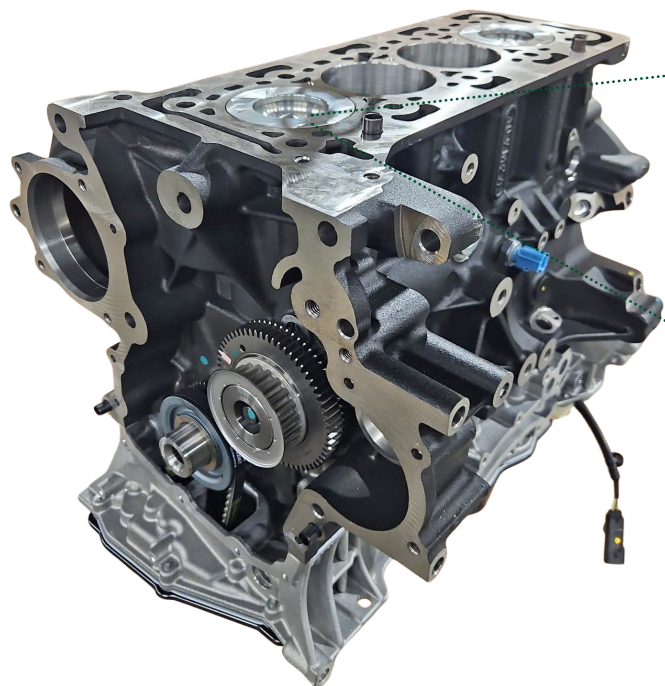
Change the engine oil every 10,000-15,000 km using only the manufacturer-approved specification, avoid short urban driving only, and proactively replace the timing belt at 100,000 km or after 5 years, whichever comes first.



**Guida all'identificazione motori
applicazione PANTHER 2.0 ECOBLUE TDCI.**

**Engine Identification Guide
PANTHER 2.0 ECOBLUE TDCI Application.**

Guida all'identificazione motori applicazione PANTHER 2.0 ECOBLUE TDCI. Engine Identification Guide PANTHER 2.0 ECOBLUE TDCI Application.



Pistone in alluminio

Aluminium piston



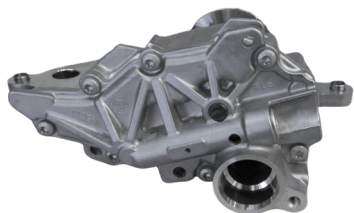
Pistone in acciaio

Steel piston



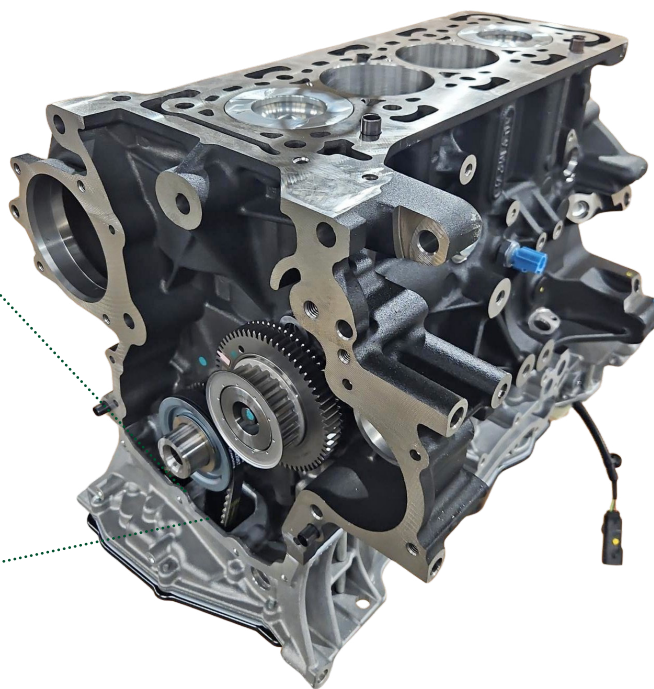
**Pompa olio senza valvola
elettrica pressione olio**

Oil pump without electric oil
pressure control valve

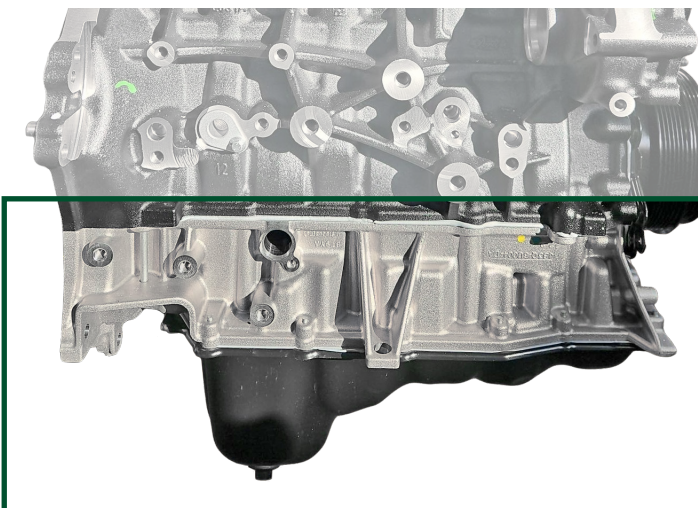
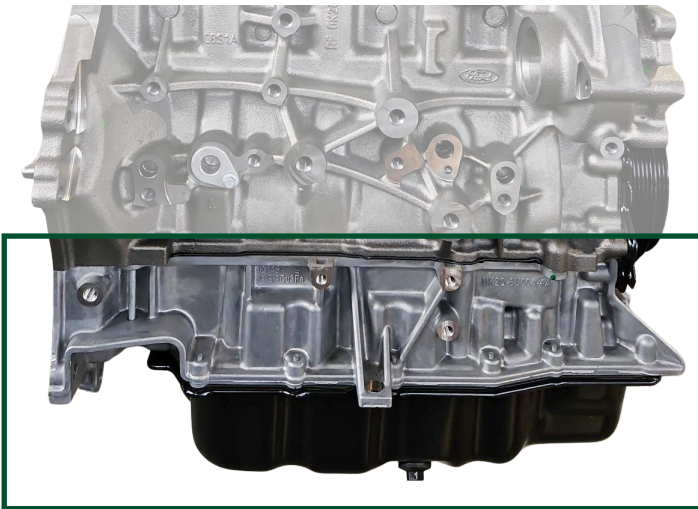


**Pompa olio con valvola
elettrica pressione olio**

Oil pump with electric oil
pressure control valve



Guida all'identificazione motori applicazione PANTHER 2.0 ECOBLUE TDCI. Engine Identification Guide PANTHER 2.0 ECOBLUE TDCI Application.



Versione coppa olio
Versione supporto coppa olio

Oil pan type
Stiffener

*The OE references and the pictures are for illustrative purpose.

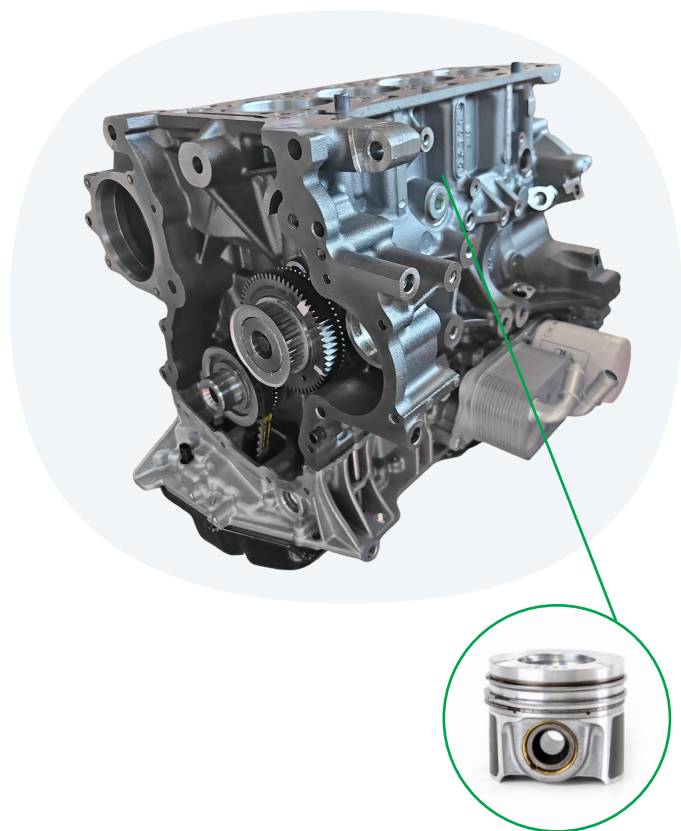


Motori
applicazione PANTHER 2.0 ECOBLUE TDCI.

Engine
PANTHER 2.0 ECOBLUE TDCI Application.

Dubhe Ref.	Type	Description	Pag.
81120	Motore Alleggerito <i>Shortblock</i>	TRANSIT/TOURNEO PANTHER 2.0 ECOBLUE TDCI - EURO 6 - FWD	.16
81125	Motore Alleggerito <i>Shortblock</i>	TRANSIT/TOURNEO PANTHER 2.0 ECOBLUE TDCI - EURO 6 - RWD	.17
81121	Motore Alleggerito <i>Shortblock</i>	TRANSIT/TOURNEO PANTHER 2.0 ECOBLUE TDCI - EURO 6 - 4WD	.18
81129	Motore Alleggerito <i>Shortblock</i>	TRANSIT/TOURNEO PANTHER 2.0 ECOBLUE TDCI - EURO 6.2 - FWD	.19
81127	Motore Alleggerito <i>Shortblock</i>	TRANSIT/TOURNEO PANTHER 2.0 ECOBLUE TDCI - EURO 6.2 - FWD	.20
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90335	Motore Semicompleto <i>Longblock</i>	TRANSIT/TOURNEO PANTHER 2.0 ECOBLUE TDCI - EURO 6 - RWD	.23
90336M	Motore Semicompleto <i>Longblock</i>	TRANSIT/TOURNEO PANTHER 2.0 ECOBLUE TDCI - EURO 6 - RWD	.24
90229	Motore Semicompleto <i>Longblock</i>	TRANSIT/TOURNEO PANTHER 2.0 ECOBLUE TDCI - EURO 6 - 4WD	.25
90222	Motore Semicompleto <i>Longblock</i>	TRANSIT/TOURNEO PANTHER 2.0 ECOBLUE TDCI - EURO 6.2 - FWD	.26
90223	Motore Semicompleto <i>Longblock</i>	TRANSIT/TOURNEO PANTHER 2.0 ECOBLUE TDCI - EURO 6.2 - FWD	.27
90226M	Motore Semicompleto <i>Longblock</i>	TRANSIT/TOURNEO PANTHER 2.0 ECOBLUE TDCI - EURO 6.2 - FWD	.28
90228	Motore Semicompleto <i>Longblock</i>	TRANSIT/TOURNEO PANTHER 2.0 ECOBLUE TDCI - EURO 6.2 - RWD	.29
90232	Motore Semicompleto <i>Longblock</i>	RANGER PANTHER 2.0 ECOBLUE - TDCI - BI-TURBO - EURO 6.2 - 4WD	.30
90238	Motore Semicompleto <i>Longblock</i>	RANGER PANTHER 2.0 ECOBLUE TDCI - MONO TURBO - EURO 6.2 - 4WD	.31

Motori Alleggeriti PANTHER 2.0 ECOBLUE TDCI Shortblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF.

81120

OE Ref.

2392682

Descrizione
Description

TRANSIT/TOURNEO
PANTHER 2.0 ECOBLUE TDCI
EURO 6 - FWD

Nota 1
Note 1

Senza distribuzione
Without timing system

Nota 2
Note 2

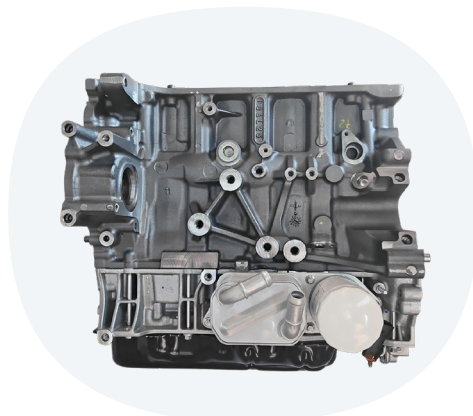
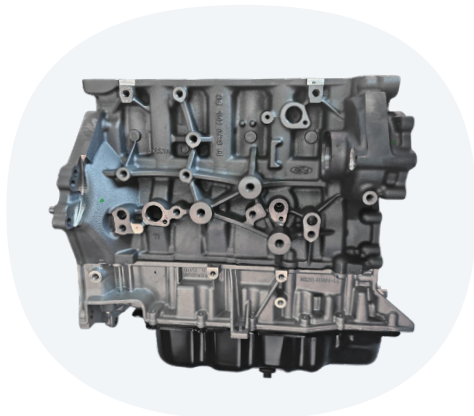
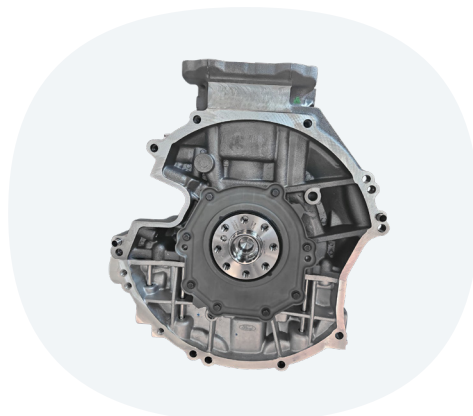
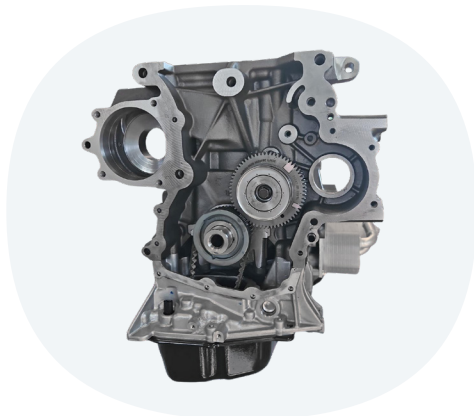
Con scambiatore olio
With oil cooler

Nota 3
Note 3

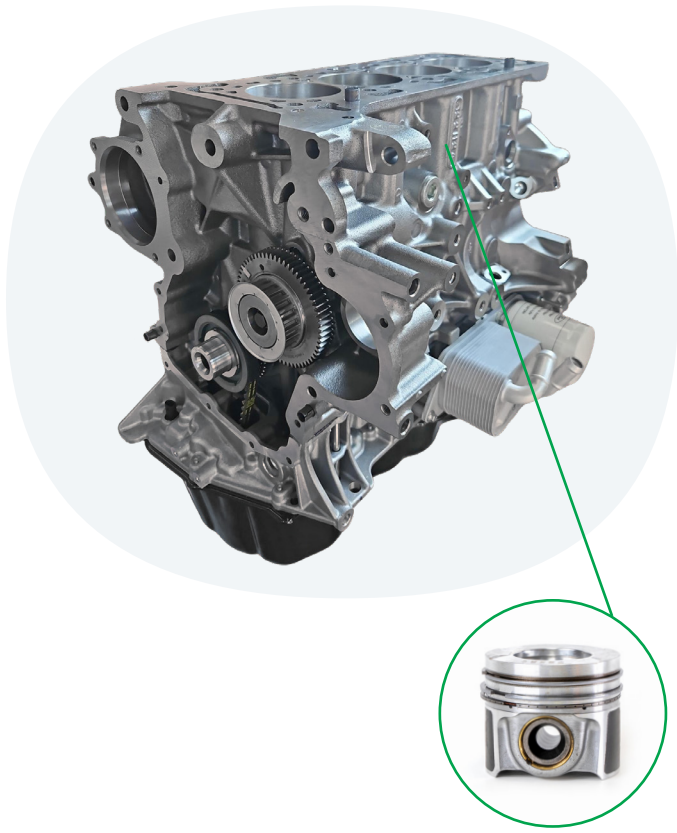
Pompa olio senza valvola elettrica
pressione olio
Oil pump without electric oil pressure
control valve

Nota 4
Note 4

Pistone in alluminio
Aluminium piston



Motori Alleggeriti PANTHER 2.0 ECOBLUE TDCI Shortblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF.

81125

OE Ref.

2450804

Descrizione
Description

TRANSIT/TOURNEO
PANTHER 2.0 ECOBLUE TDCI
EURO 6 - RWD

Nota 1
Note 1

Senza distribuzione
Without timing system

Nota 2
Note 2

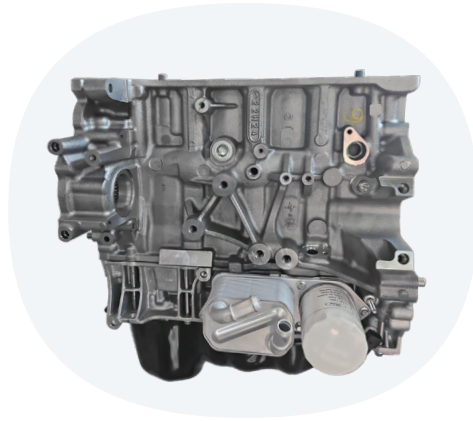
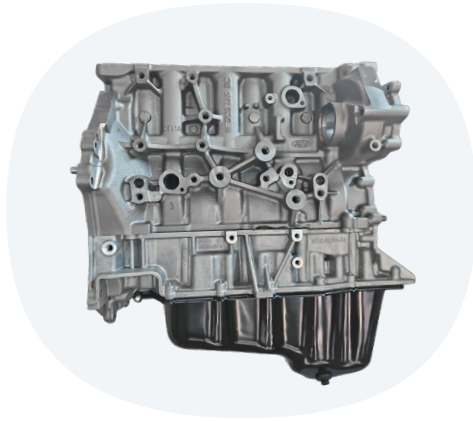
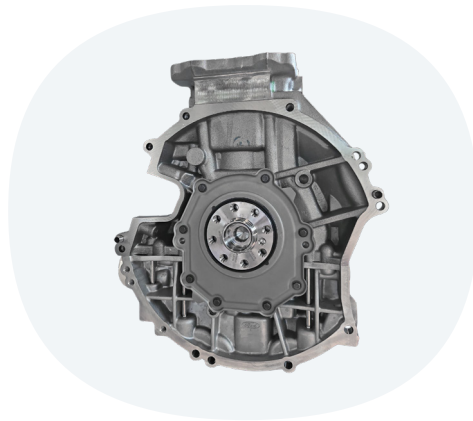
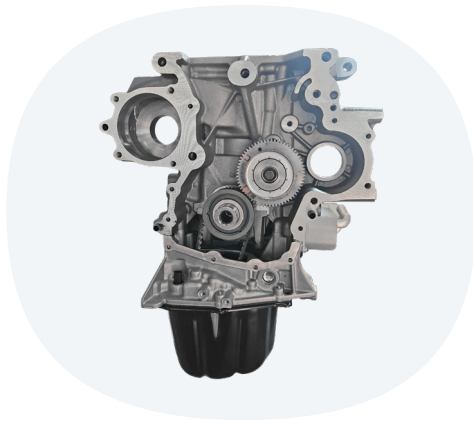
Con scambiatore olio
With oil cooler

Nota 3
Note 3

Pompa olio senza valvola elettrica
pressione olio
Oil pump without electric oil pressure
control valve

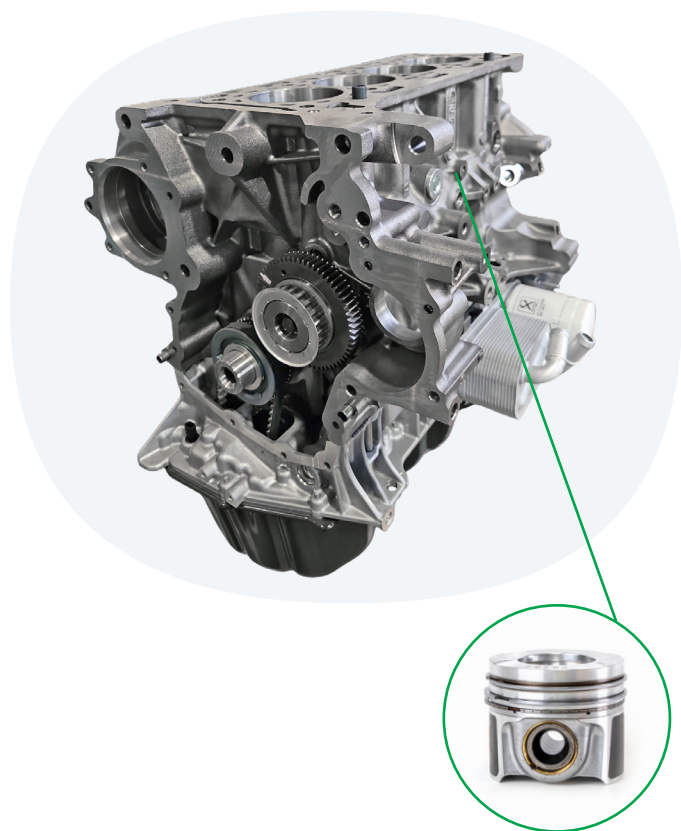
Nota 4
Note 4

Pistone in alluminio
Aluminium piston



*The OE references and the pictures are for illustrative purpose.

Motori Alleggeriti PANTHER 2.0 ECOBLUE TDCI Shortblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF. **81121**

OE Ref. 2761610

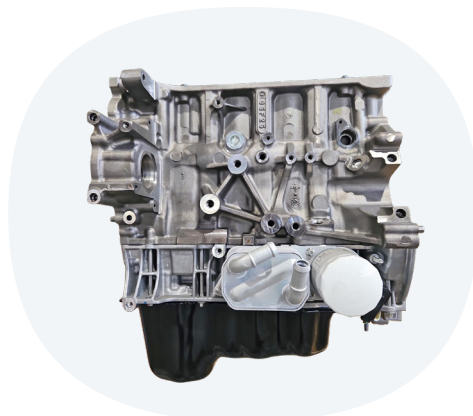
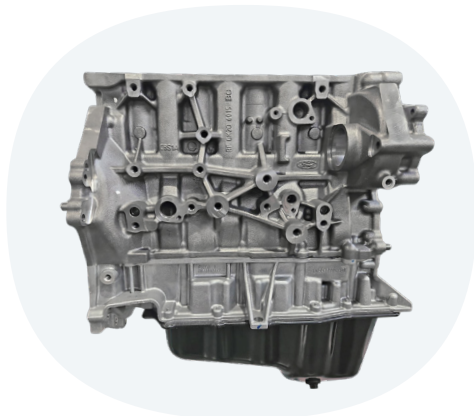
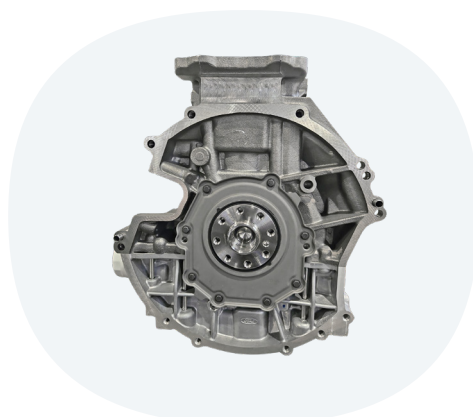
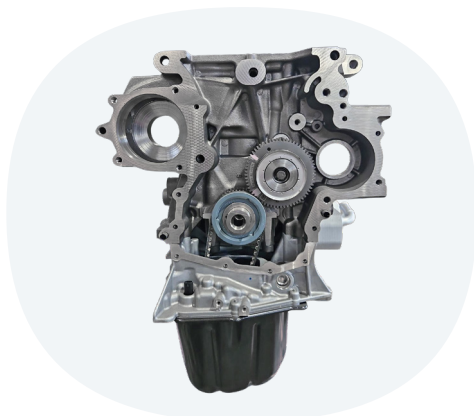
Descrizione
Description TRANSIT/TOURNEO
PANTHER 2.0 ECOBLUE TDCI
EURO 6 - 4WD

Nota 1
Note 1 Senza distribuzione
Without timing system

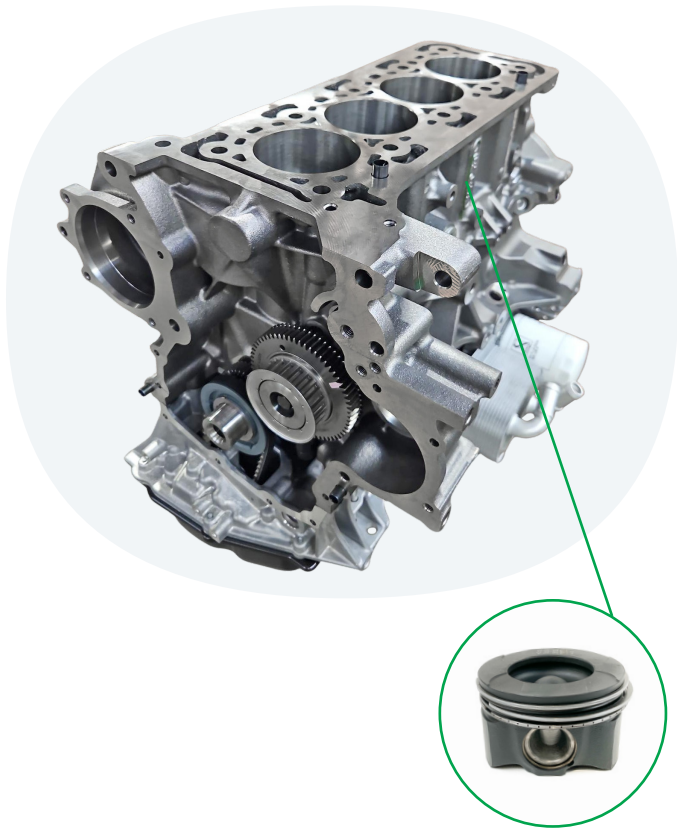
Nota 2
Note 2 Con scambiatore olio
With oil cooler

Nota 3
Note 3 Pompa olio senza valvola elettrica
pressione olio
Oil pump without electric oil pressure
control valve

Nota 4
Note 4 Pistone in alluminio
Aluminium piston



Motori Alleggeriti PANTHER 2.0 ECOBLUE TDCI Shortblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF. **81129**

OE Ref. 2802696

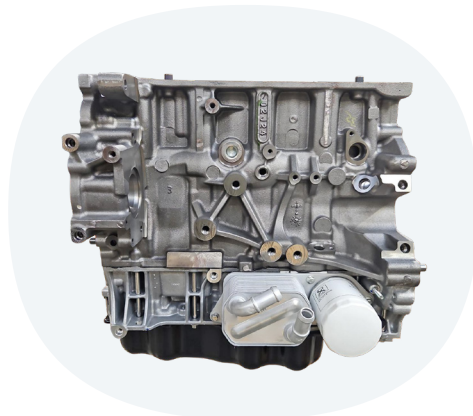
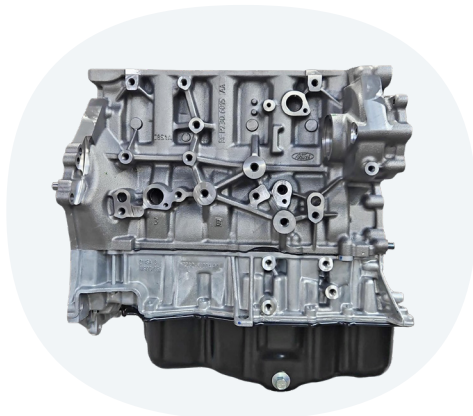
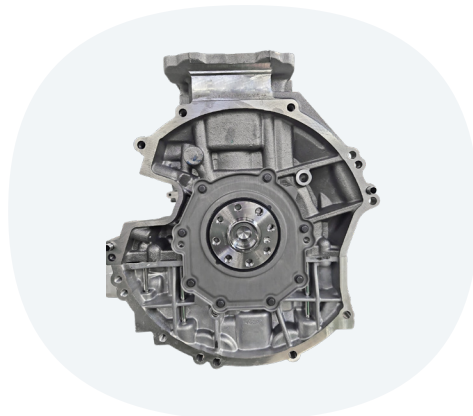
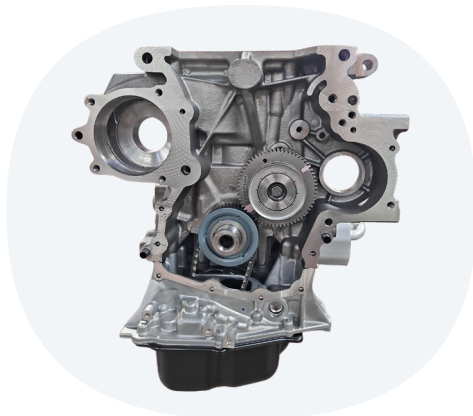
Descrizione
Description TRANSIT/TOURNEO
PANTHER 2.0 ECOBLUE TDCI
EURO 6.2 - FWD

Nota 1
Note 1 Senza distribuzione
Without timing system

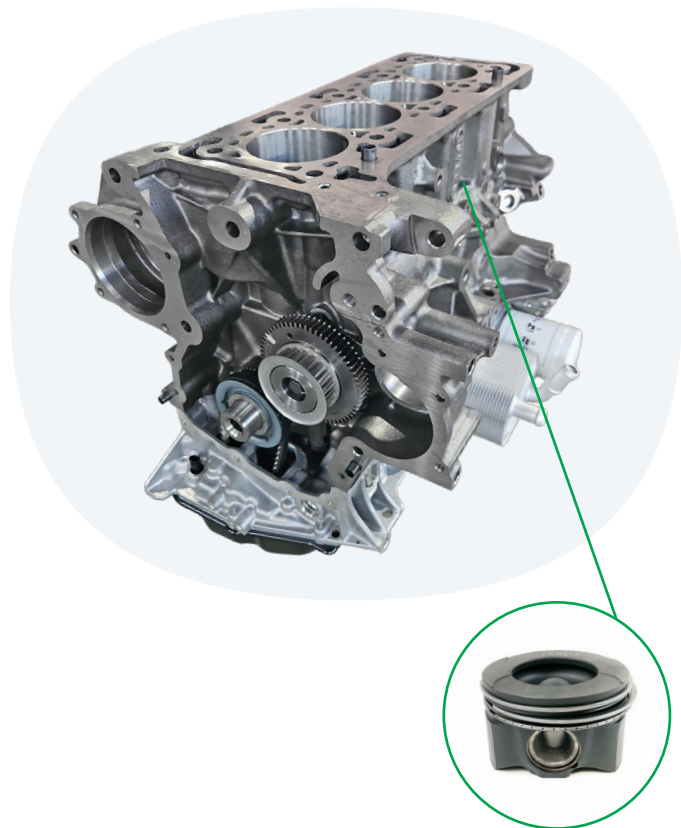
Nota 2
Note 2 Con scambiatore olio
With oil cooler

Nota 3
Note 3 Pompa olio senza valvola elettrica
pressione olio
Oil pump without electric oil pressure
control valve

Nota 4
Note 4 Pistone in acciaio
Steel piston



Motori Alleggeriti PANTHER 2.0 ECOBLUE TDCI Shortblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF. **81127**

OE Ref. 2796987

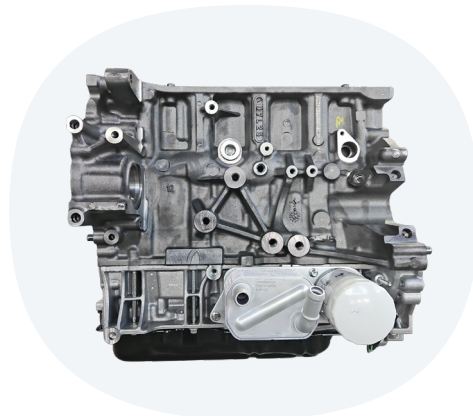
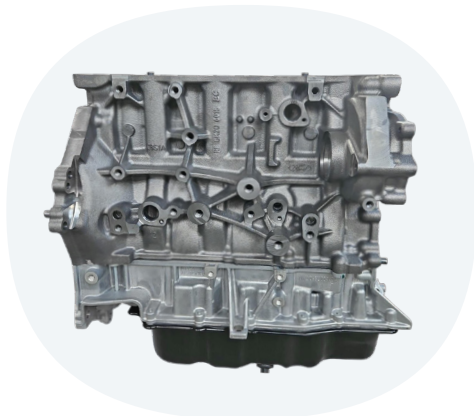
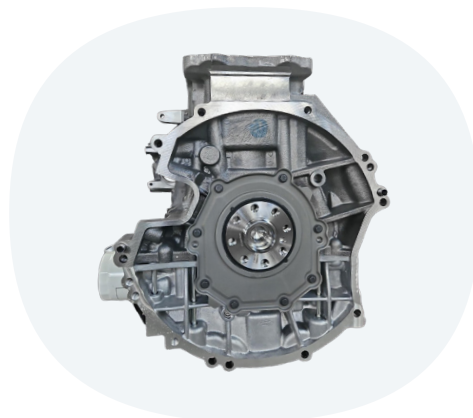
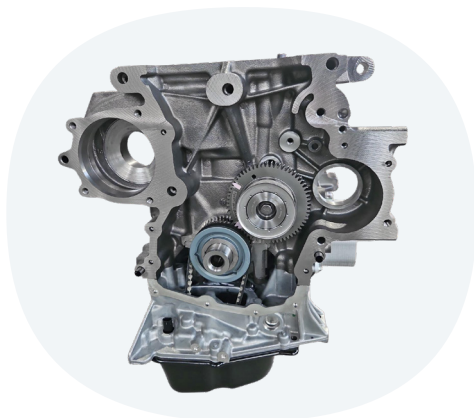
Descrizione
Description TRANSIT/TOURNEO
PANTHER 2.0 ECOBLUE TDCI
EURO 6.2 - FWD

Nota 1
Note 1 Senza distribuzione
Without timing system

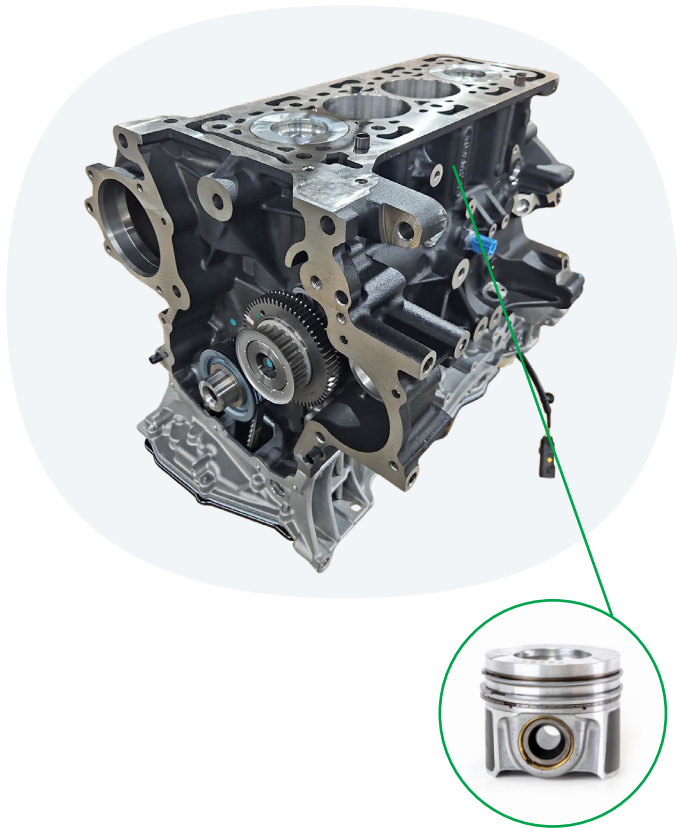
Nota 2
Note 2 Con scambiatore olio
With oil cooler

Nota 3
Note 3 Pompa olio con valvola elettrica
pressione olio
Oil pump with electric oil pressure control
valve

Nota 4
Note 4 Pistone in acciaio
Steel piston



Motori Alleggeriti PANTHER 2.0 ECOBLUE TDCI Shortblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF. **81232**

OE Ref. 2759673

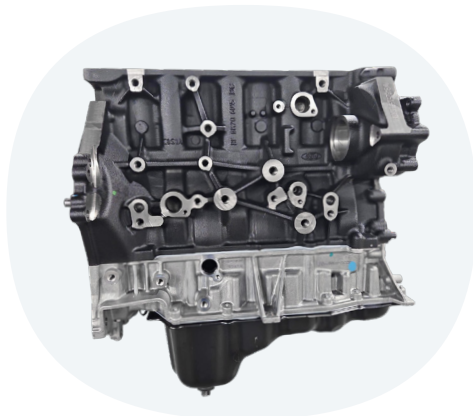
Descrizione RANGER
Description PANTHER 2.0 ECOBLUE TDCI
EURO 6.2 - 4WD

Nota 1 Senza distribuzione
Note 1 Without timing system

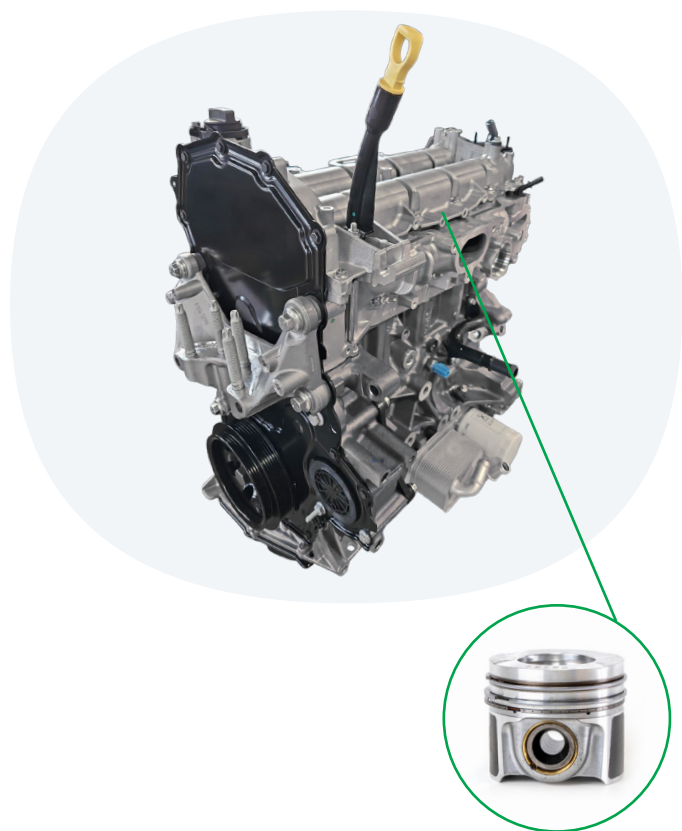
Nota 2 Senza scambiatore olio
Note 2 Without oil cooler

Nota 3 Pompa olio senza valvola elettrica
Note 3 pressione olio
Oil pump without electric oil pressure
control valve

Nota 4 Pistone in alluminio
Note 4 Aluminium piston



Motori semicompleti PANTHER 2.0 ECOBLUE TDCI Longblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF. **90225**

OE Ref. 2761573

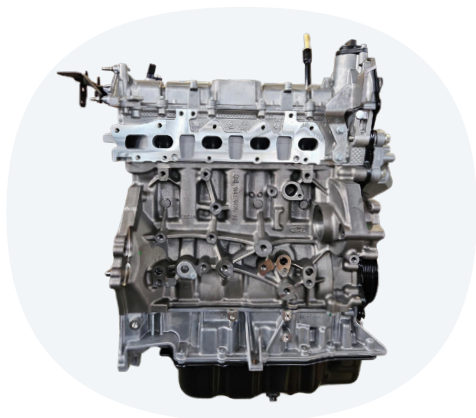
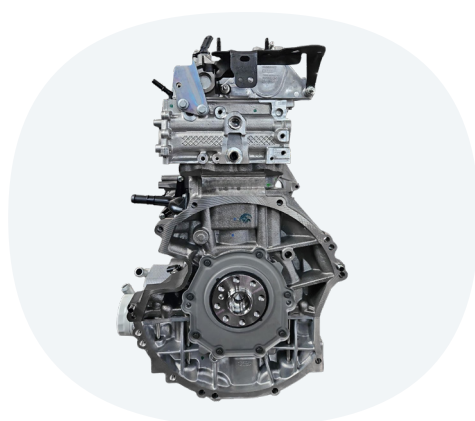
Descrizione
Description TRANSIT/TOURNEO
PANTHER 2.0 ECOBLUE TDCI
EURO 6 - FWD

Nota 1
Note 1 Con distribuzione
With timing system

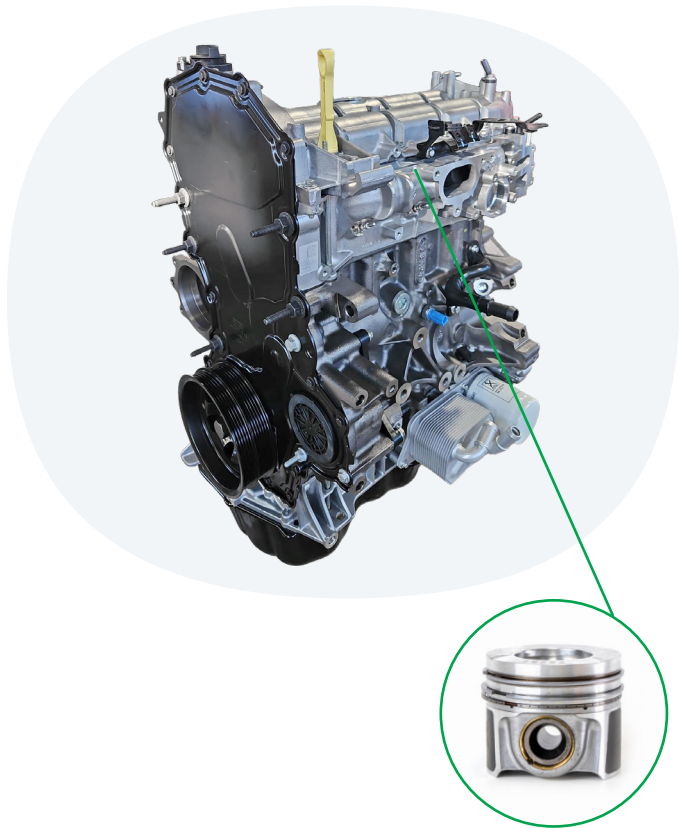
Nota 2
Note 2 Con scambiatore olio
With oil cooler

Nota 3
Note 3 Pompa olio senza valvola elettrica
pressione olio
Oil pump without electric oil pressure
control valve

Nota 4
Note 4 Pistone in alluminio
Aluminium piston



Motori semicompleti PANTHER 2.0 ECOBLUE TDCI Longblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF. **90335**

OE Ref. 2761596

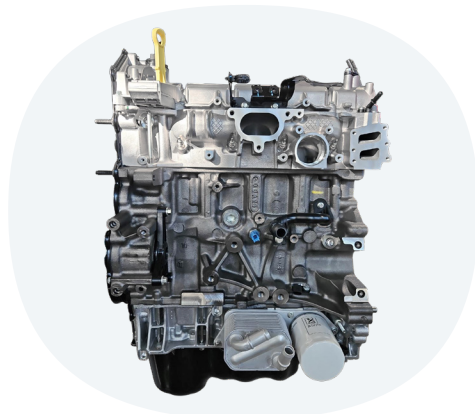
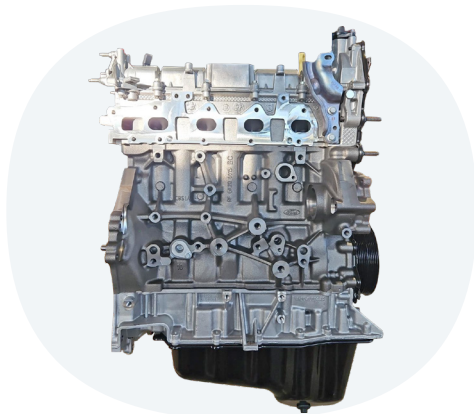
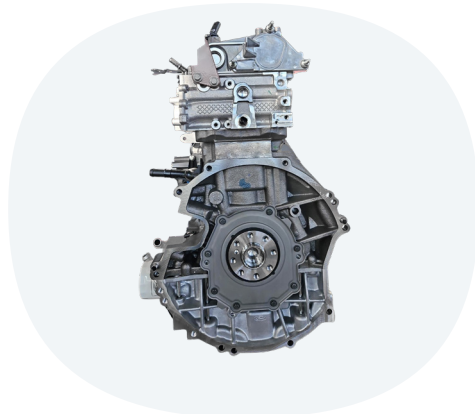
Descrizione
Description TRANSIT/TOURNEO
PANTHER 2.0 ECOBLUE TDCI
EURO 6 - RWD

Nota 1
Note 1 Con distribuzione
With timing system

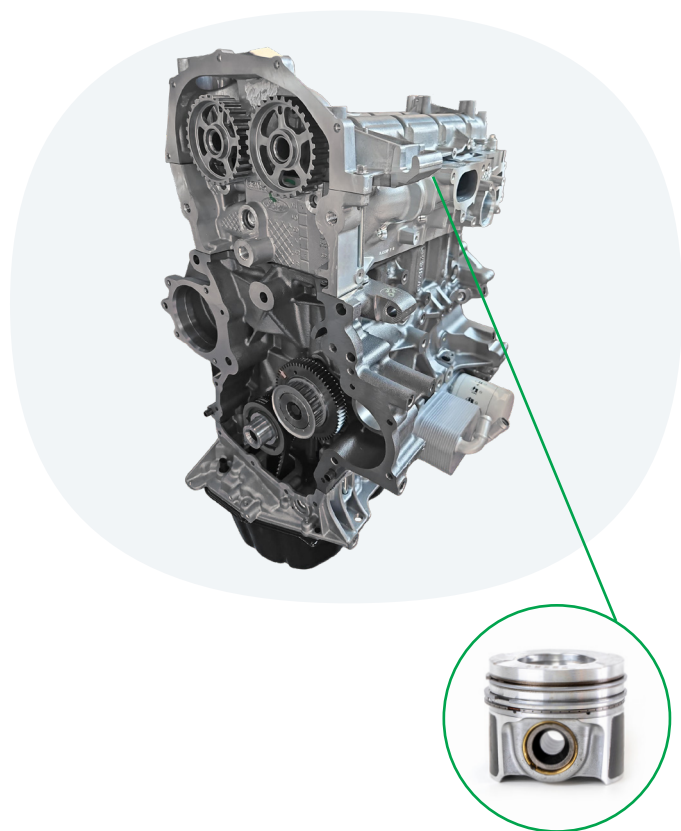
Nota 2
Note 2 Con scambiatore olio
With oil cooler

Nota 3
Note 3 Pompa olio senza valvola elettrica
pressione olio
Oil pump without electric oil pressure
control valve

Nota 4
Note 4 Pistone in alluminio
Aluminium piston



Motori semicompleti PANTHER 2.0 ECOBLUE TDCI Longblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF. **90336M**

OE Ref. 90336M

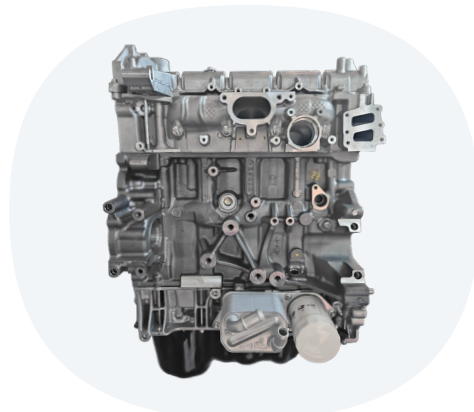
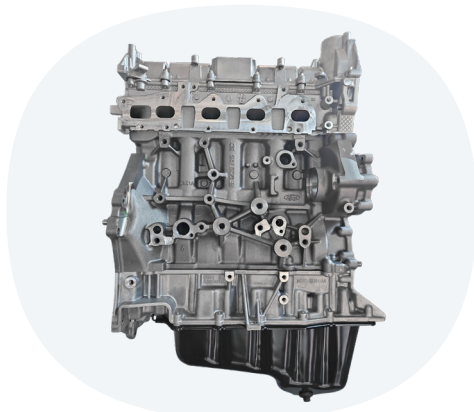
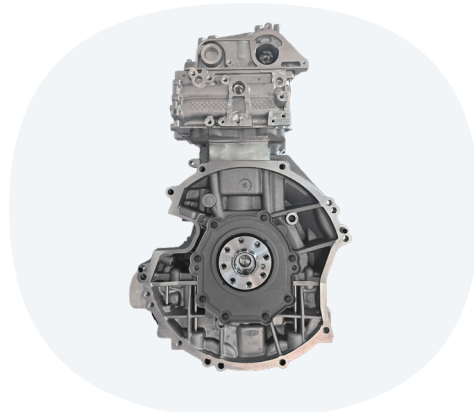
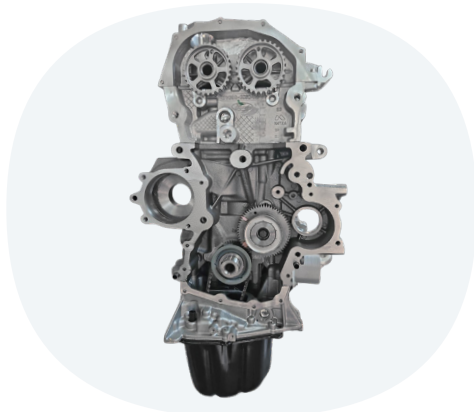
Descrizione
Description TRANSIT/TOURNEO
PANTHER 2.0 ECOBLUE TDCI
EURO 6 - RWD

Nota 1
Note 1 Senza distribuzione
Without timing system

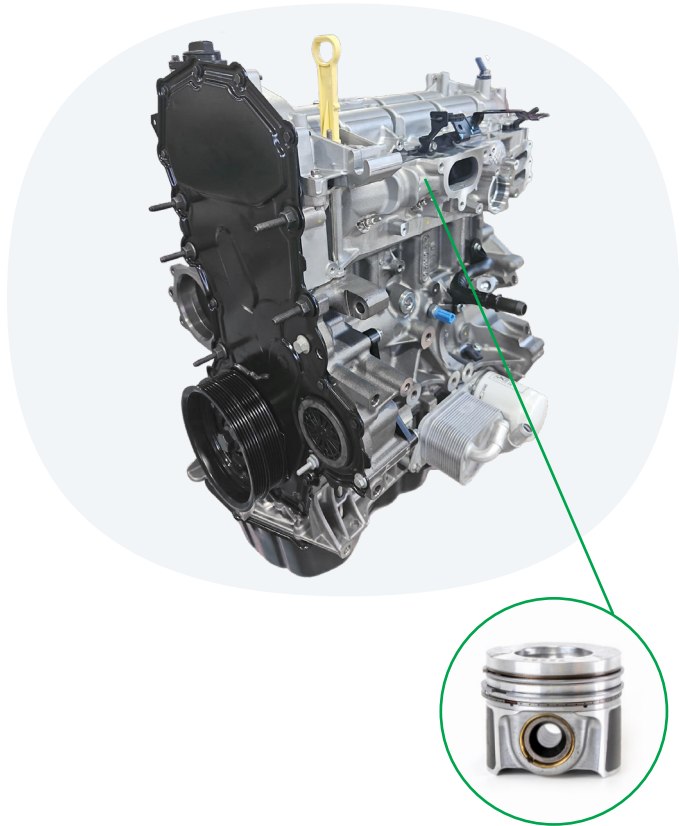
Nota 2
Note 2 Con scambiatore olio
With oil cooler

Nota 3
Note 3 Pompa olio senza valvola elettrica
pressione olio
Oil pump without electric oil pressure
control valve

Nota 4
Note 4 Pistone in alluminio
Aluminium piston



Motori semicompleti PANTHER 2.0 ECOBLUE TDCI Longblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF. **90229**

OE Ref. 2761598

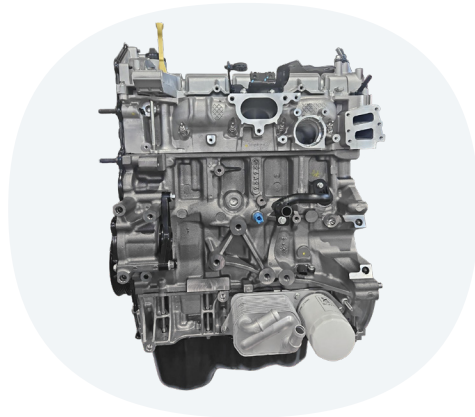
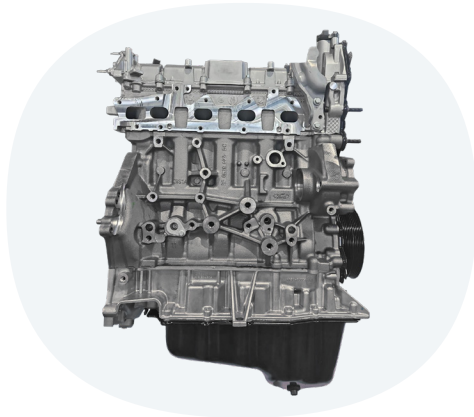
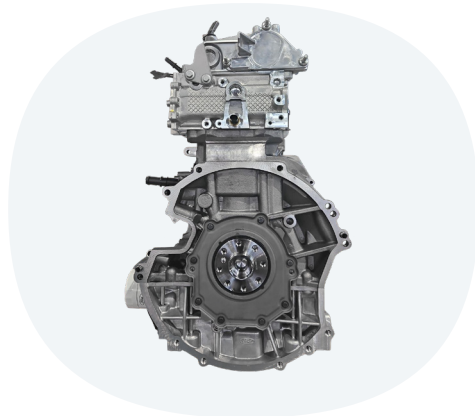
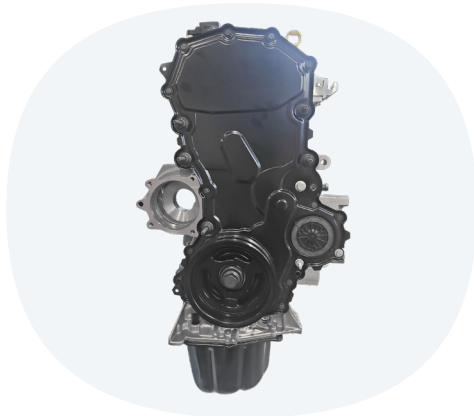
Descrizione
Description TRANSIT/TOURNEO
PANTHER 2.0 ECOBLUE TDCI
EURO 6 - 4WD

Nota 1
Note 1 Con distribuzione
With timing system

Nota 2
Note 2 Con scambiatore olio
With oil cooler

Nota 3
Note 3 Pompa olio senza valvola elettrica
pressione olio
Oil pump without electric oil pressure
control valve

Nota 4
Note 4 Pistone in alluminio
Aluminium piston



*The OE references and the pictures are for illustrative purpose.

Motori semicompleti PANTHER 2.0 ECOBLUE TDCI Longblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF. **90222**

OE Ref. 2760950

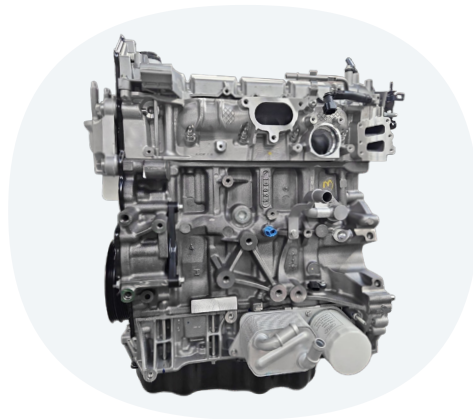
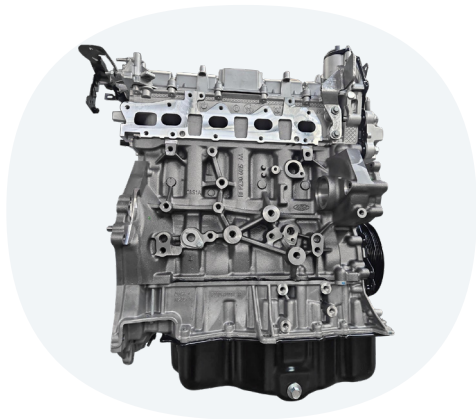
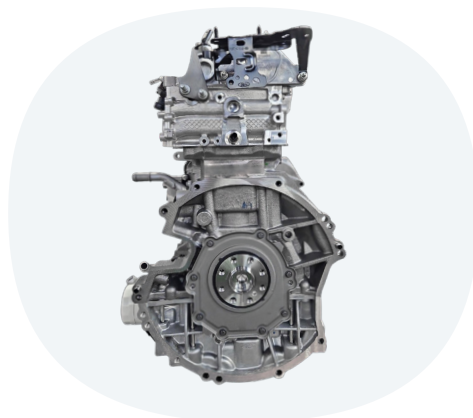
Descrizione
Description TRANSIT/TOURNEO
PANTHER 2.0 ECOBLUE TDCI
EURO 6.2 - FWD

Nota 1
Note 1 Con distribuzione
With timing system

Nota 2
Note 2 Con scambiatore olio
With oil cooler

Nota 3
Note 3 Pompa olio senza valvola elettrica
pressione olio
Oil pump without electric oil pressure
control valve

Nota 4
Note 4 Pistone in acciaio
Steel piston



Motori semicompleti PANTHER 2.0 ECOBLUE TDCI Longblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF. **90223**

OE Ref. 2761627

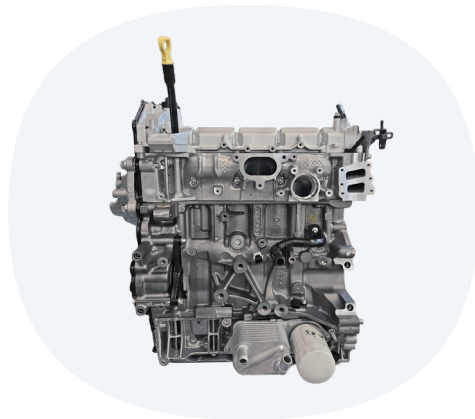
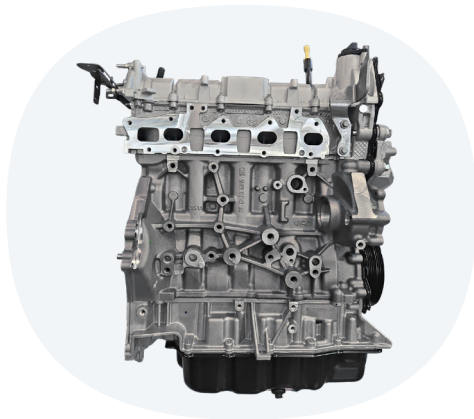
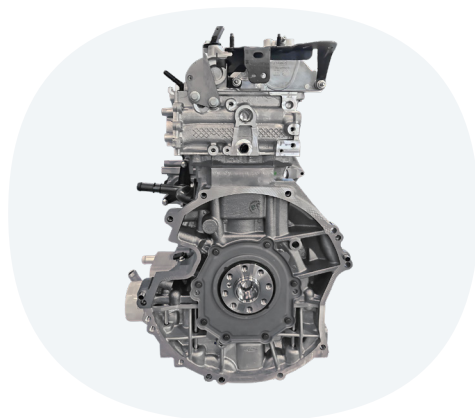
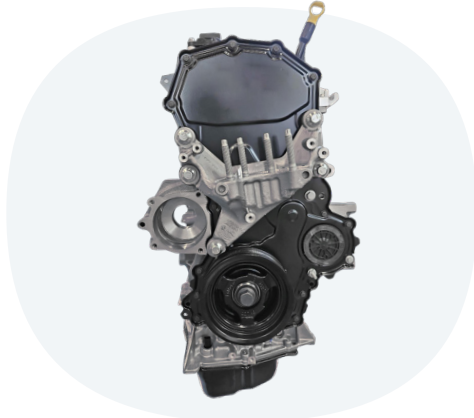
Descrizione
Description TRANSIT/TOURNEO
PANTHER 2.0 ECOBLUE TDCI
EURO 6.2 - FWD

Nota 1
Note 1 Con distribuzione
With timing system

Nota 2
Note 2 Con scambiatore olio
With oil cooler

Nota 3
Note 3 Pompa olio con valvola elettrica
pressione olio
Oil pump with electric oil pressure control
valve

Nota 4
Note 4 Pistone in acciaio
Steel piston



Motori semicompleti PANTHER 2.0 ECOBLUE TDCI

Longblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF.

90226M

OE Ref.

2339687

Descrizione
Description

TRANSIT/TOURNEO
PANTHER 2.0 ECOBLUE TDCI
EURO 6.2 - FWD

Nota 1
Note 1

Senza distribuzione
Without timing system

Nota 2
Note 2

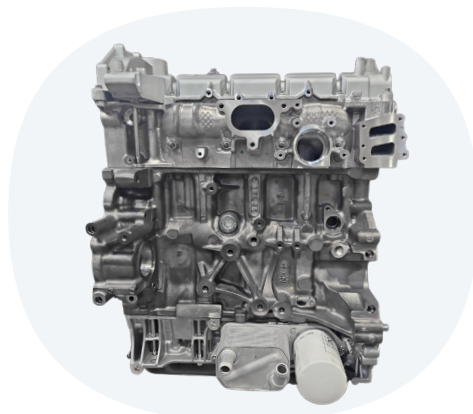
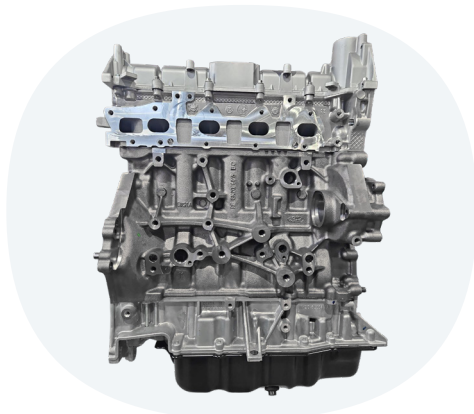
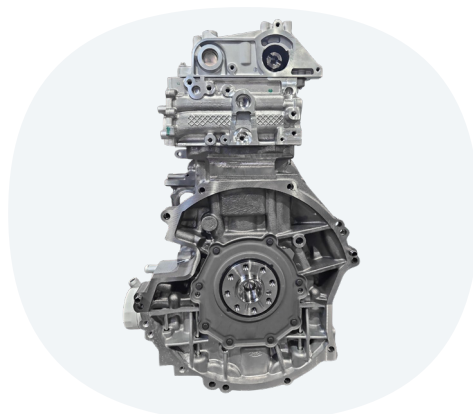
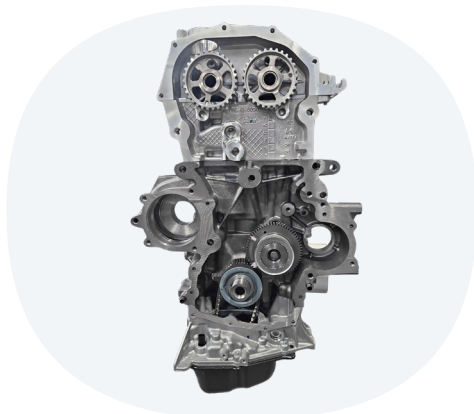
Senza scambiatore olio
Without oil cooler

Nota 3
Note 3

Pompa olio con valvola elettrica
pressione olio
Oil pump with electric oil pressure control
valve

Nota 4
Note 4

Pistone in acciaio
Steel piston



Motori semicompleti PANTHER 2.0 ECOBLUE TDCI Longblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF. **90228**

OE Ref. 2761675

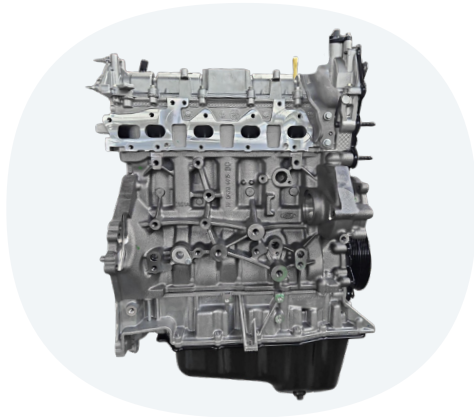
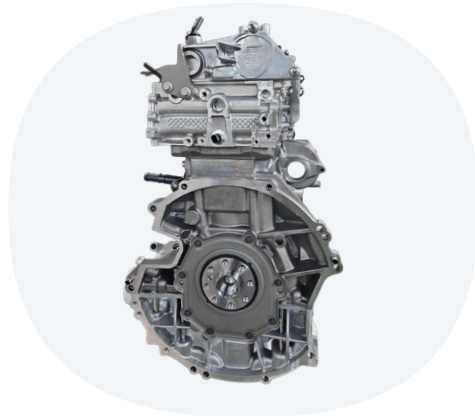
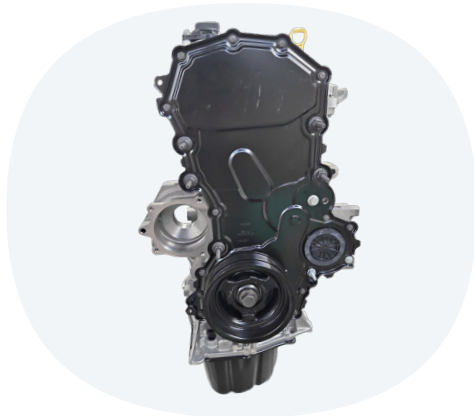
Descrizione
Description TRANSIT/TOURNEO
PANTHER 2.0 ECOBLUE TDCI
EURO 6.2 - RWD

Nota 1
Note 1 Con distribuzione
With timing system

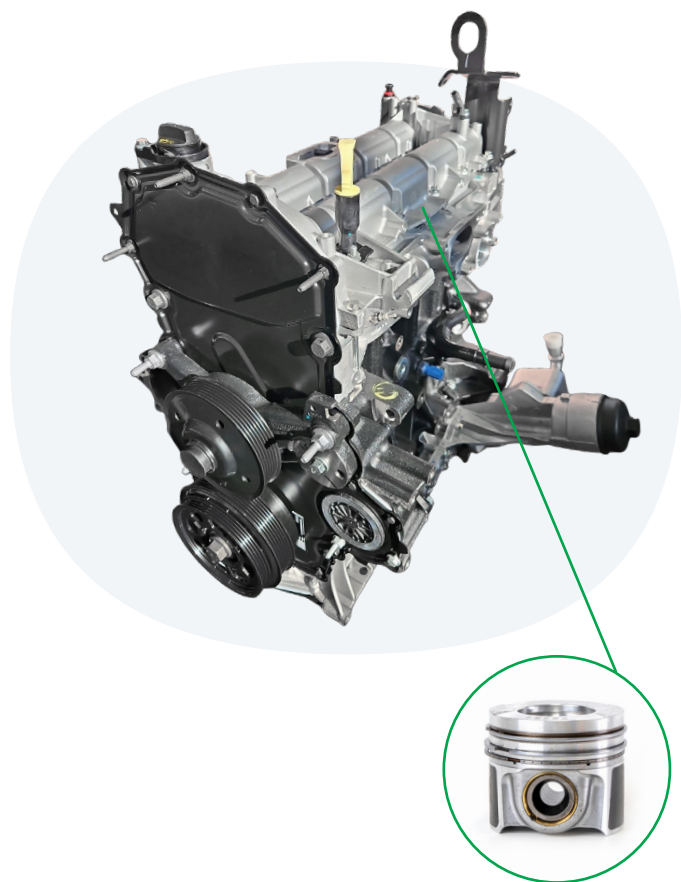
Nota 2
Note 2 Con scambiatore olio
With oil cooler

Nota 3
Note 3 Pompa olio con valvola elettrica
pressione olio
Oil pump with electric oil pressure control
valve

Nota 4
Note 4 Pistone in acciaio
Steel piston



Motori semicompleti PANTHER 2.0 ECOBLUE TDCI Longblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF. **90232**

OE Ref. 2759669

Descrizione
Description RANGER
PANTHER 2.0 ECOBLUE TDCI - BI-TURBO
EURO 6.2 - 4WD

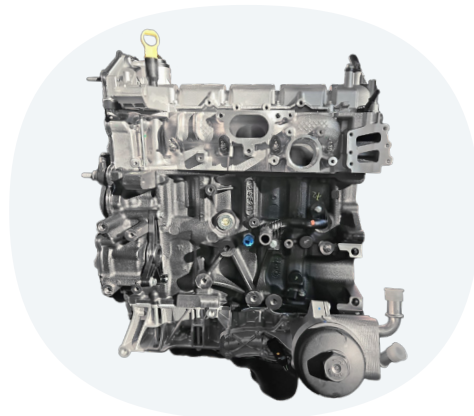
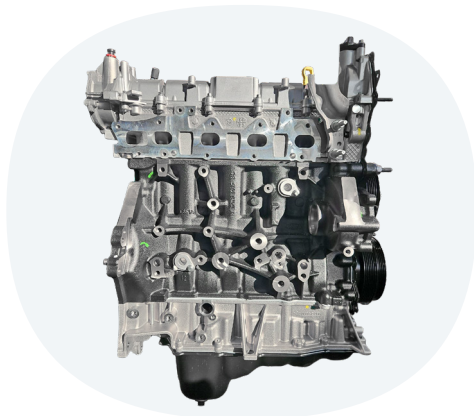
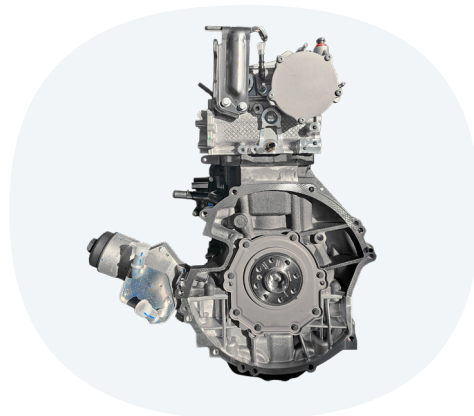
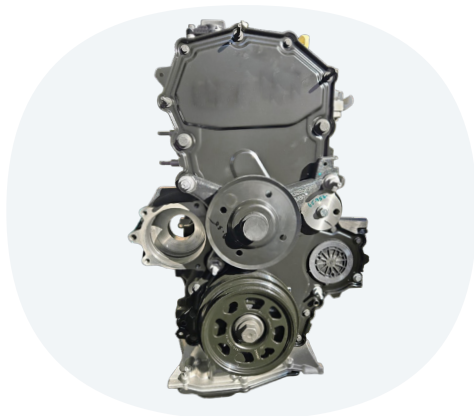
Nota 1
Note 1 Con distribuzione
With timing system

Nota 2
Note 2 Con scambiatore olio
With oil cooler

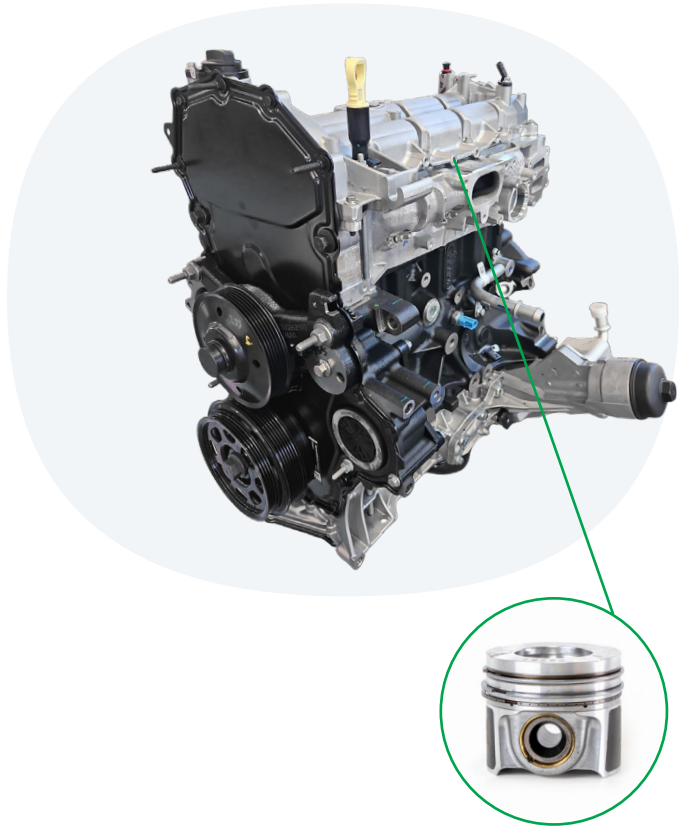
Nota 3
Note 3 Pompa olio senza valvola elettrica
pressione olio
Oil pump without electric oil pressure
control valve

Nota 4
Note 4 Pistone in alluminio
Aluminium piston

Nota 5
Note 5 Bi-Turbo



Motori semicompleti PANTHER 2.0 ECOBLUE TDCI Longblock PANTHER 2.0 ECOBLUE TDCI



DUBHE REF. **90238**

OE Ref. 2759667

Descrizione
Description RANGER
PANTHER 2.0 ECOBLUE TDCI
MONO TURBO - EURO 6.2 - 4WD

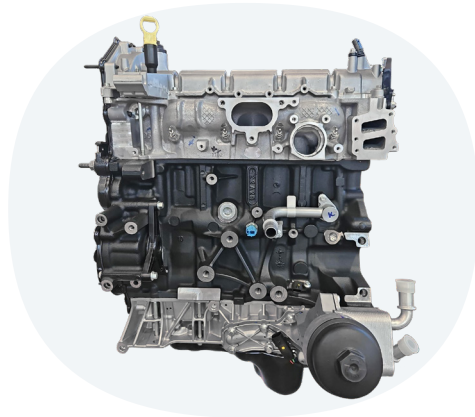
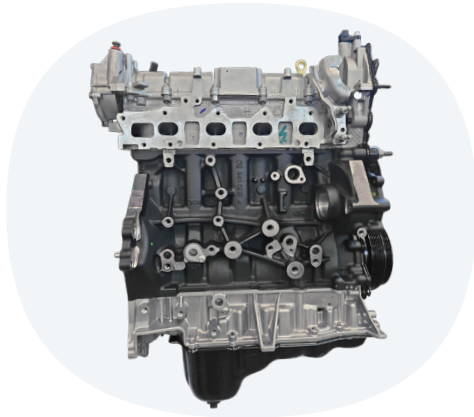
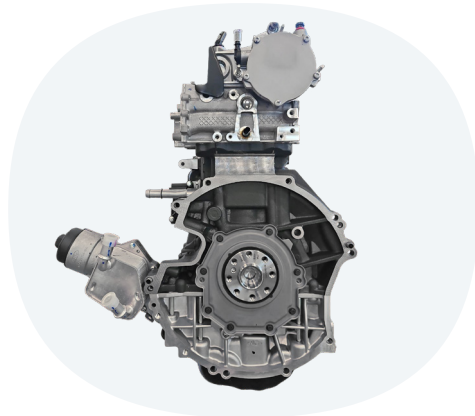
Nota 1
Note 1 Con distribuzione
With timing system

Nota 2
Note 2 Con scambiatore olio
With oil cooler

Nota 3
Note 3 Pompa olio senza valvola elettrica
pressione olio
Oil pump without electric oil pressure
control valve

Nota 4
Note 4 Pistone in alluminio
Aluminium piston

Nota 5
Note 5 Mono Turbo





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