

# MaK Piston Crowns

## REParts Marine-CM

### Genuine MaK Parts



#### Introduction

The REPart Marine-CM Piston Crown is unique, as it encompasses an approved & patented process exclusive to Caterpillar and its MaK dealerships.

By consolidating all rework in a globally consistent process we obtain high standards of quality for Caterpillar approved piston crowns using original and genuine MaK parts and processes.

#### What makes the difference?

- REPart Marine-CM Piston Crown is unique
- Machined to original OEM dimensions
- Surface grinding with cross finish
- Highly effective masking technique
- No chrome delamination or layering
- Correct fit and function of piston ring
- Good distribution of gas forces
- No additional edge loading
- Reduced ring groove wear and tear
- Correct piston ring tension
- Good lubrication, low liner wear, no blow by



#### Frequently Asked Questions

##### What type of MaK Piston Crowns does this new REParts process cover?

The REParts exchange process and components are offered for all MaK four stroke engines manufactured by Caterpillar Motoren GmbH, although there may be some redundancies in older legacy piston crowns we will provide an alternative repair for non-production engines if available.

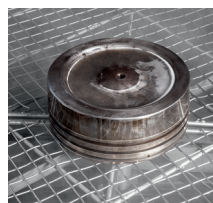
##### What is the cost of the reconditioning process as a percentage of new?

In general we aim to be competitive in the cost of reconditioning and expect to average 35% of the new replacement price of a reusable piston crown, depending on age and running hours.

##### How long will it take for the complete process from beginning to end?

Availability is not a major issue, as we stock a variety of MaK piston crowns in the REParts inventory. If we don't have what you need when you need it, an equivalent new piston crown can be offered in exchange.

(continued on next page)



REPart Marine-CM components follows a unique patented process

## Frequently Asked Questions (continued)

### What could be the consequences on my engine?

Compared to a used piston crown with 30,000 hrs wear, improved piston running conditions, better lubrication, less chance of blow by, low liner wear, and generally reduced ring groove wear and tear. The rework process can be repeated up to three or four times in the life of a piston crown, although if surfaces are severely burnt or damaged, or after 90,000 running hours we would recommend replacement with new.

### Does the REParts Marine-CM Piston Crown use laser cladding and is this process an EIAPP and IACS Class certified?

No, we return a REParts piston crown to as new condition, through a patented rechroming process. The use of laser cladding is not recommended by Caterpillar. The REParts Marine-CM fully confirm to MARPOL Annex IV and EIAPP certified.

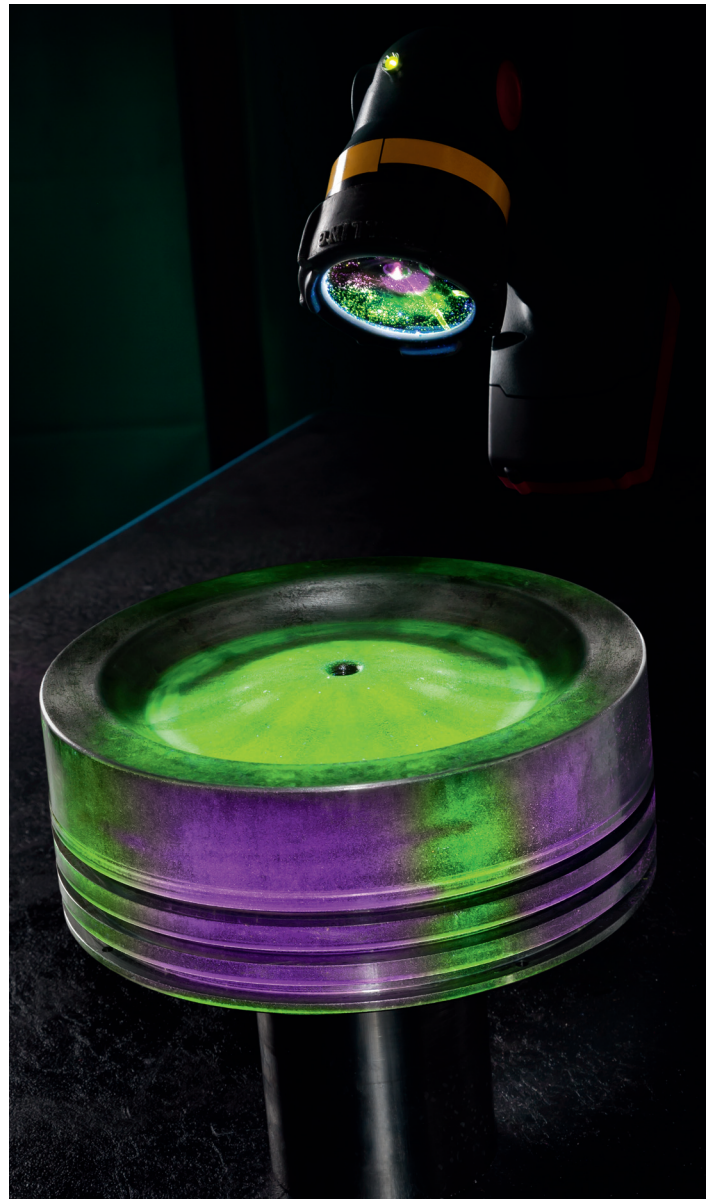
## Your Benefits

- Full 12 months factory guarantee
- Unique and exclusive MaK service
- Technically approved by Caterpillar
- Cost effective and high quality



*"No one else has the ability, availability or protection of the OEM in the aftermarket."\**

\* MaK customer



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**MaK**