

# WORKING TOGETHER

*for China Nonroad Stage IV*



 Perkins®

Perfect integration into your machine  
*Together, we power ahead.*

# China Nonroad Stage IV

## Supporting you today and into the future

We're ready to help you comply to the new China Nonroad (NR) Stage IV emission standards.

Impacting all diesel engines installed for off-highway mobile machinery, the new standard calls for a range of new technologies, including diesel particulate filters (DPF) on engines in the 37-560 kW range.

To deliver the reliability and performance you need, it is important to collaborate with a manufacturer who understands these technologies.

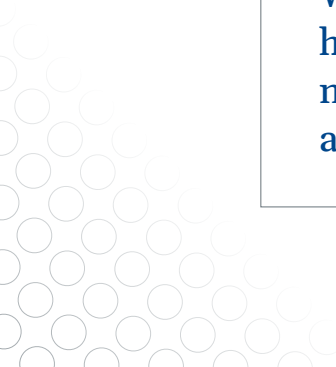
With 90 years experience of supporting off-highway vehicle manufacturers, and a proven track-record of developing low emissions engines to meet global emissions standards, Perkins has the experience to guide you through every step of this process.

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Perkins has been designing and developing aftertreatment since 2007.

We have the experience to help you transition to the new standards quickly and cost-effectively.

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## **Answers** to your questions

We know you have many questions about China NR IV, especially relating to the effectiveness and robustness of new aftertreatment solutions including DPF regeneration. We use the latest catalyst technology to reduce regeneration temperatures, and integrate software strategies to efficiently deliver the required temperatures.

Developing machine systems that offer end users seamless operation and maximum uptime, we are helping the world's leading manufacturers benefit from these technologies in highly regulated territories. Now they are being introduced to China, we have the answers you need.

Supported with in-house testing and field validation, our engines meet the most stringent emissions standards including U.S. EPA Tier 4 Final/EU Stage V.

We are on our third generation of low emissions technology, Perkins has supplied engine and aftertreatment systems to more than 350,000 off-highway machines, which have accumulated a total of 1.3 billion field hours.

We understand your challenges and the technology and have the experience to help you transition to the new standards quickly and cost-effectively.

### ***Our knowledge***

- Manufacturing in China since 2007
- Perkins aftertreatment systems have accumulated 1.3 billion field hours
- Aftertreatment systems to more than 350,000 off-highway machines
- Dedicated research and development centre in Wuxi
- Over 600 people supporting our products in China

# Working in collaboration at every stage

From design and integration through to ongoing maintenance and aftercare, we are able to help you adapt confidently to China NR IV. Combined with a modular approach to our engine platform, we deliver power and service in exactly the way you want.



## **Committed** to China

We manufacture international quality engines in our modern, automated factory in Wuxi, which also has a Research and Development Centre dedicated to exploring new engine designs and technologies. In total, we employ over 600 people in China, covering manufacture, design, testing, product support and sales. We understand the needs of the Chinese market and have the people and experience to meet them.



## **Simplifying** machine integration

Our engines include a range of mounting options to simplify machine integration. Additionally, Perkins engineers are available locally to work with you, helping solve challenges and reduce installation costs and time to market.



## **DPF** experience

Perkins has a history of experience in aftertreatment solutions. This includes DPF technology where we have delivered 1.3 billion hours in service, helping ensure continuous engine performance with minimum operator input. This experience is available to you in China.



## **Maximum power** and performance from a minimum engine package

Ranging from 1.1-18.1 litre (16.1-470 kW), our engines are tested and validated in-machine by Perkins to save you time, cost, and effort and will meet China NR IV. Designed to deliver the required power and torque within the smallest engine footprint, they give you benefits in terms of cost, space and fluid consumption.



## **Aftercare** support

We have a best-in-class supply chain to achieve the fast and reliable delivery of 30,000 genuine parts. Our technicians are on-hand to service and maintain your engines. We offer innovative solutions including the Perkins® My Engine App which provides engine specific service, support and consumable information direct to your smartphone. We add value at every step.

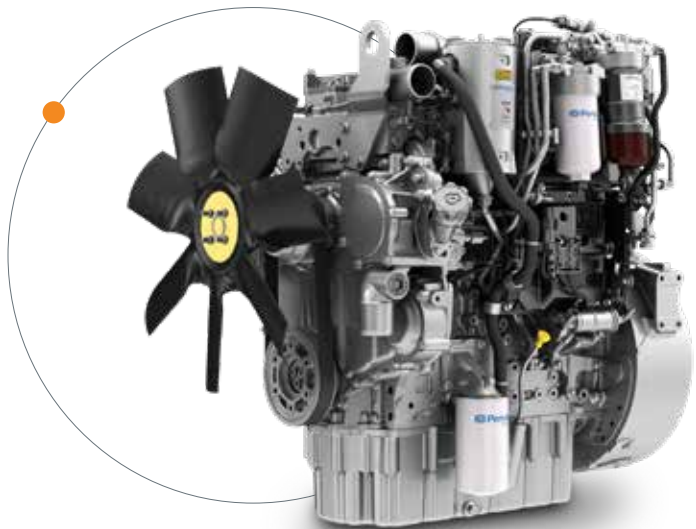
# A full range of China NR IV engines

Perkins offers a complete range of China NR IV engines.

This means we have the flexibility to meet individual requirements so you can achieve the value and performance you need from your engine choice.

Engine model	Aspiration	Displacement (litres)	Power (kW)	Aftertreatment modules		
403EA-11	NA/T	1.1	16.1-21	No requirement		
403EA-17	NA	1.7	18.9			
404EA-22	NA/T	2.2	34-36.4			
904EA-E36	TA	3.6	74-82	DOC	DPF	
1204EA-E44	TA/TTA	4.4	110-129	DOC	DPF	
1206EA-E70	TA/TTA	7.0	130-205	DOC	DPF	SCR
1706EA-E93	TA	9.3	250-340	DOC	DPF	SCR
2406EA-E13	TA	12.5	340-430	DOC	DPF	SCR
2506EA-E15	TA	15.2	354-433	DOC	DPF	SCR
2806EA-E18	TA	18.1	429-470	DOC	DPF	SCR

Data subject to change



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