

PERKINS ENGINES COMPANY LTD

EMISSIONS SUPPLEMENT

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非道路国四排放关键零部件质保清单(如适用)	

Group	Part Name
Air Induction System Includes: Air Intake and Exhaust Group	Air Filter (Maintenance Item limits) ATAAC Outlet Temperature Sensor Balance Valve Solenoid Camshaft Charge Air Cooler (ATAAC, SCAC, JWAC)
Camshaft Group Cylinder Head Group Turbocharger Group	Compressor Inlet Pressure Sensor Compressor Outlet Pressure Sensor Exhaust Manifold Inlet Air Temperature Sensor Inlet Manifold Pressure Sensor Inlet Manifold Temperature Sensor Intake Manifold Interstage Ducting (Series Turbocharged Engines) Precooler Smart Wastegate Solenoid Turbo Balance Valve Turbocharger(s) Turbo to CEM - Flexible Coupling Turbo to CEM - Rigid Pipe IVA/VVA - Actuator/accumulator IVA/VVA - Check Valve IVA/VVA - Oil Feed Tubes (Quill Tubes) IVA/VVA - Solenoid IVA/VVA - Wiring Harness Wastegate
Cooling System Coolant	Temperature Sensor Thermostat/Regulator (Maintenance Item limits)
Crankcase Ventilation System	Fumes Filter (Maintenance Item limits) Fumes Filter Housing Oil Filler Cap - Only if equipped with OCV, CCV systems Pressure Regulating Valve
Electronic Engine Controls	Electronic Control Module Engine Wiring Harness Personality Module/Software Speed/Timing Sensor

Group	Part Name
Fuel Metering System Common	Rail Fuel Pump Fuel Injection - Pump (High Pressure) Fuel Injector - Rocker Arms, Push Rods Fuel Injector - Wiring Harness Fuel Injectors/Nozzles Fuel Rail (Common Rail Fuel Systems) Fuel Rail Pressure Sensor HEUI Oil Pressure Sensor HEUI Pump, HEP Pump High Pressure Fuel Lines Quill Tubes Rail Pressure Control Valve Timing - Advance Timing - Solenoid
Fuel Supply System	Fuel Cooler Fuel Pressure Regulator Fuel Return Check Valve Fuel Temperature Sensor Fuel Transfer Pump
Particulate Regeneration System	ARD - Fuel Nozzle ARD - Fuel Pump Wiring Harness
Includes: ARD - Aftertreatment Regen Group CEM - Clean Emissions Mod Group DPG - Diesel Particulate Group NRS - Nox Reduction System Group	ARD - Head ARD - Housing ARD - Ignition Coil ARD - Spark Plug (Maintenance Item Iimits) Backpressure Valve Catalyzed Particulate Filter CEM - Delta Pressure Sensor CEM - Inlet Pressure Sensor CEM - Inlet Temperature Sensor CEM - Wiring Harness Combustion Air Valve Diesel Oxidation Catalyst Exhaust Gas Temperature Sensor Flame Detect Sensor Fuel/Air Ratio Control Fuel Pressure Regulator Fuel Pump Intake Throttle Valve Main Fuel Pressure Sensor Main Fuel Solenoid Nozzle Heater Relay NRS - Absolute Pressure Sensor NRS - Cooler NRS - Mixer NRS - Temperature Sensor NRS - Valve NRS - Valve Position Sensor Particulate Filter Pilot Fuel Pressure Sensor Pilot Fuel Solenoid Reed Valves RF Soot Sensor Antenna RF Soot Sensor Module

Group	Part Name
Miscellaneous items	Used to connect the above listed approved parts including but limited to: Hoses, connectors, clamps, fittings, tubing, sealing gaskets or devices, mounting hardware and Emission Control Information Labels are also covered by emissions warranty.

China Non-road 4 Key Emission Parts Warranty List (If applicable) 非道路国四排放关键零部件质保清单 (如适用)

Group		Part Name
类别	•	零件名称
Air Intake System 进气系统		Intake manifold
		进气歧管 Turba abargar avatam
		Turbocharger system 增压器
		Inlet throttle valve
		进气节流阀
		Camshaft 凸轮轴
Fuel System		ਸ਼ਹਤ ਸ਼ਹਤ ਸ਼ਹਤ ਸ਼ਹਤ ਸ਼ਹਤ ਸ਼ਹਤ ਸ਼ਹਤ ਸ਼ਹਤ
燃油系统		燃油喷射系统(包括喷油泵、喷油器、共轨管)
EGR System		Exhaust Gas Recirculation (EGR) system
废气再循	· 坏 系统 I	废气再循环系统 Diocal Oxidation Catalyst
		Diesel Oxidation Catalyst DOC
		Diesel Particulate Filter
	Aftertreatment 后处理装置	DPF Selective Catalytic Reduction/Ammonia Slip Catalyst (AMOX)
		SCR/ASC(AMOX)
		Reductant dispensing system (reactant dispensing pump included)
		反应剂喷射系统 (包括反应剂喷射泵) Reactant level sensor
		反应剂液位传感器
		Reactant quality sensor
		反应剂质量传感器 NOx sensor
Emission Control		NOX Serisor NOx 传感器
Related Parts		NH3 sensor
排放控制相关部件	0	NH3传感器
	Sensors 传感器	Oxygen sensor 氧传感器
	1 (75, 74	Exhaust temperature sensor
		排温传感器
		Exhaust pressure sensor 排气压力传感器
		Differential pressure sensor
		压差传感器
		Particulate sensor 颗粒物传感器
	Electronic	
	Control Units	Electronic Control Unit (ECU) 电子控制单元(ECU)
电子控制单元		23 17.63 (70)
Positive Crankcase Ventilation (PCV) System		PCV valve
曲轴箱强制通风系统		PCV阀