

Off-Road Products



Cleaire diesel retrofit systems are specifically designed to provide diesel particulate (PM) reductions for in-use diesel engines in challenging off-road applications, including duty cycles with cold exhaust and older engines. Key features include:

- CARB verification to Level 3+ (>85%) compliance for PM
- Eligible for local, state and federal funding programs
- The practical alternative to costly equipment replacement
- Industry leading advanced monitoring, diagnostics and data retrieval system
- Proven reliability with over 7,000 units in operation



Cleaire balances the need for cleaner air with the demanding requirements of real-world off-road diesel applications and the need to maximize the economic life cycle of your equipment while avoiding costly replacement.

Quick Specs		ALLMETAL™	LONESTAR™	SKYLINE™	PHOENIX®
Filter Type		Passive diesel particulate filter	Passive diesel particulate filter with NOx reduction	Active diesel particulate filter with electric heater regeneration	Active diesel particulate filter with diesel burner regeneration
CARB Verification ¹	Engine PM Limit	0.20 g/bhp-hr PM and lower engines	0.12 g/bhp-hr PM and lower engines	0.40 g/bhp-hr PM and lower engines	0.20 g/bhp-hr PM and lower engines
	Engine Model Years	1996-2010	1996-2009	1996 - 2007	1996 - 2009
	Engine Displacement	6.7 to 18.2 liters	5.9 to 11 liters	Up to 15 liters	Up to 12 liters
Typical Applications		loaders, dozers, scrapers, graders, excavators, cranes and others	loaders, dozers, scrapers, graders, excavators, cranes and others	Light Duty Cycle: yard based equipment, cranes, fork lifts and others	Light Duty Cycle: yard based equipment, cranes, fork lifts and others
PM Reduction		Greater than 85% (Level 3+)	Greater than 85% (Level 3+)	Greater than 85% (Level 3+)	Greater than 85% (Level 3+)
NOx Reduction		None	At least 40%	None	None
Fuel Compatibility		ULSD / Up to B20	ULSD / Up to B20	ULSD / Up to B20	ULSD
Exhaust Temperature Requirement		Yes - Consult dealer	260° C for at least 70% time	None	None
Regeneration Type		Passive	Passive	Active (electric heater)	Active (diesel burner)
¹ Check verification for specific application criteria, exclusions and requirements. NOTE: Product specifications are for reference only and may vary or change without notice.					

For more information, contact this Authorized Off-Road Dealer for Cleaire Advanced Emission Controls®

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