

CAT® AD63 UNDERGROUND ARTICULATED TRUCK

CONTINUOUS IMPROVEMENT

Addressing operational challenges in high ambient conditions

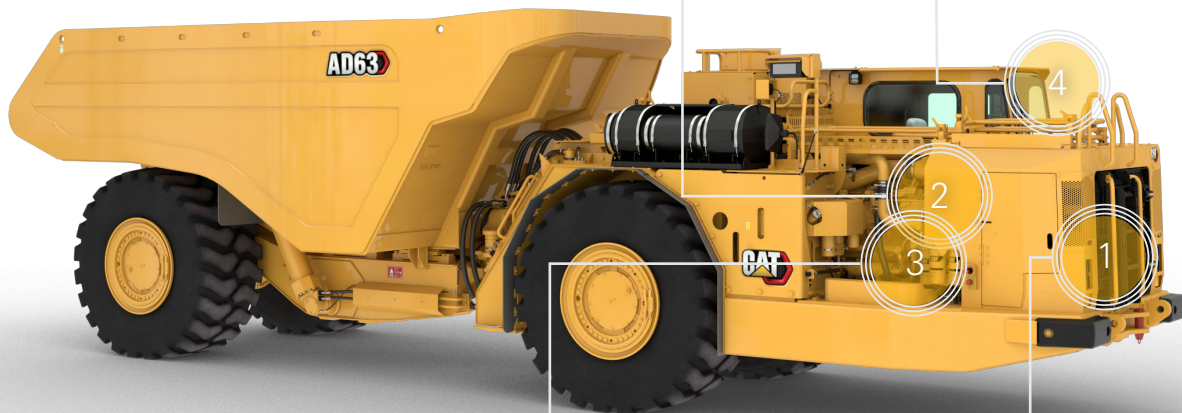
Our commitment to Cat® underground equipment doesn't end when a machine begins work. We immediately start looking for improvement opportunities to make that machine work more safely, efficiently and productively. From addressing performance issues, to training operators and technicians, to finding ways to increase uptime — our support continues throughout the life of the machine.

We recently made a series of improvements to the AD63 Underground Articulated Truck and rolled those updates into new production machines as well as AD63 trucks already working in the field.

Together, these improvements help enhance your AD63's productivity and availability.

Increased fan speed during 'lug' conditions helps improve cooling capability, while the enhanced engine strategy helps deliver the full value of the C27 engine and maintain excellent engine life.

Optional Cat® Extended Life Inhibitor (ELI) coolant helps increase heat rejection where antifreeze protection is not required.



A high-efficiency engine oil cooler helps deliver lower oil-to-bearing temperatures.

The updated jacket water radiator helps improve heat dissipation and increase machine ambient capability.

1

ENGINE OIL COOLER

The AD63's engine oil cooler has been updated with a high-efficiency design. This improved cooler helps lower engine oil temperature, particularly in high-ambient applications, supporting greater machine productivity and availability.

2

REVISED ENGINE SOFTWARE

To help you maintain performance in demanding underground conditions, the engine software has been updated to improve engine fan speed at lower engine revolutions per minute (rpm). The new strategy supports faster fan speed during "lug" conditions, helping manage heat more effectively.

The engine oil derate strategy has also been updated to help you keep working when ambient conditions begin to exceed the machine's capability. Instead of the previous full derate, the revised strategy introduces a staggered derate, starting with a small 10% reduction. This is typically enough to help keep oil temperature under control while maintaining strong power, torque and excellent engine life.

3

FIVE-ROW RADIATOR

To help you manage heat more effectively in high-ambient conditions, the radiator has been updated from a four-row design to a higher-efficiency, five-row design that improves heat rejection from the C27 engine. The new radiator maintains the same form and fit while adding an extra row of fins, helping increase the AD63's ambient capability for your operation in hotter conditions.

4

OPTIONAL CAT ELI COOLANT

For AD63 machines operating where antifreeze protection is not required, Cat Extended Life Coolant (ELC) radiator coolant can now be replaced with Cat Extended Life Inhibitor (ELI) coolant. This coolant option helps improve ambient capability while maintaining excellent cooling system protection, supporting reliable machine performance in demanding conditions.



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