

Tier 3 Repower Solution

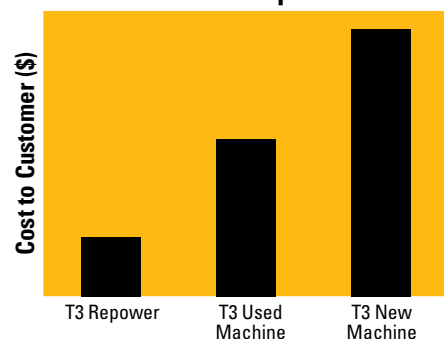
For D8R Series I Track Type Tractor



Emissions Repower Benefits:

- Updated components similar to those found in a Tier 3 D8T with comparable overhaul costs
- Significant reductions in engine out emissions
- EPA / CARB Tier 3 replacement engine
- Enables work in areas with site requirements for strict emissions levels
- Most cost effective technology to comply with state and federal emissions requirements
- Preservation of comfort level with machine operation
- Funding may be available from local, state or federal sources
- Special financing programs may apply
- Newer technology engine parts improve availability

Cost effective method to achieve emissions compliance



D8R T3 repower is approximately 25% the cost of a new D8T



Tier 3 Repower Solution

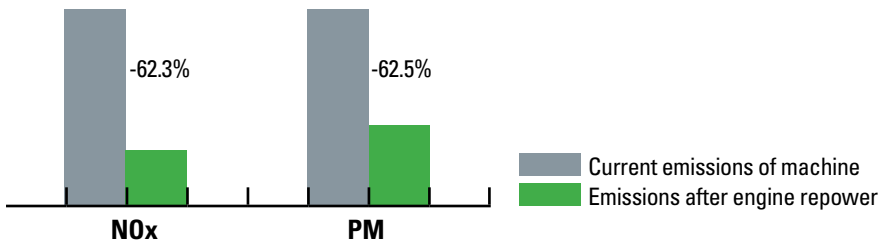


How it works: Your Cat dealer will remove the existing engine and replace it with a lower emissions integrated Tier 3 solution

Rating Match / Performance and Emissions:

- Longer maintenance intervals (S•O•S should be used to confirm oil change interval)
- Matched to original power train
- Repower engine performance is matched to original engine rating
- Engine load acceptance / transient response

D8R TTT to Tier 3



Data calculated through Diesel Emissions Quantifier

Repower Features

- Tier 3 - C15 ACERT engine



- Engine monitoring / diagnostics
- On demand fan / reverse fan control
- Increased resale value
- Complete engineered solution
- All service parts supported through CAT parts system
- Cost-effective solution

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We offer you the right parts and service solutions, when and where you need them.

The Cat Dealer network of highly trained experts can help you maximize your equipment investment.



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Tier 3 Repower Solution

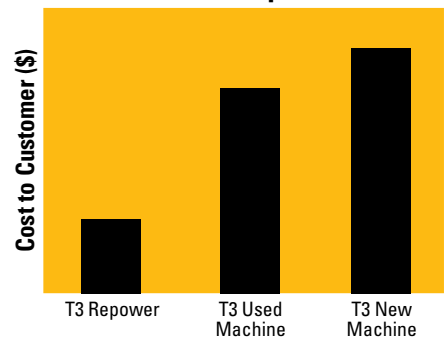
For 140G Motor Grader



Emissions Repower Benefits:

- Significant reductions in engine out emissions
- EPA / CARB Tier 3 replacement engine
- Enables work in areas with site requirements for strict emissions levels
- Most cost effective technology to comply with state and federal emissions requirements
- ACERT technology engine parts improve availability
- Preservation of comfort level with machine operation
- Funding may be available from local, state or federal sources
- Special financing programs may apply

Cost effective method to achieve emissions compliance



140G T3 repower is approximately 25% the cost of a new 140M



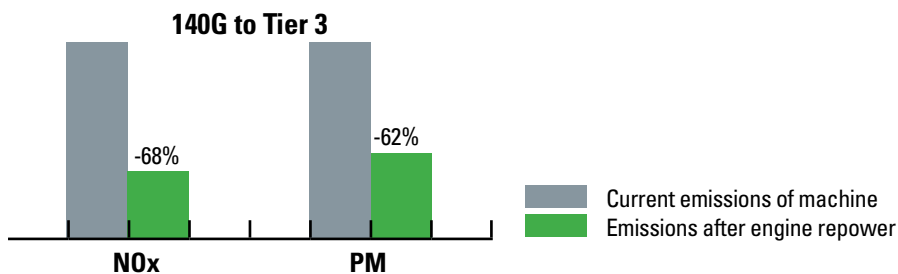
Tier 3 Repower Solution



How it works: Your Cat dealer will remove the existing engine and replace it with a lower emissions integrated Tier 3 solution

Rating Match / Performance and Emissions:

- Longer maintenance intervals (S.O.S. should be used to confirm oil change interval)
- Matched to original power train
- Excellent performance and response



Data calculated through EPA Diesel Emissions Quantifier

Repower Features

- Tier 3 - C7 ACERT engine



- Engine monitoring / diagnostics
- Redesigned air / water lines
- Improved cooling system and components
- Cost-effective solution
- Increased resale value
- Complete engineered solution
- All service parts supported through CAT parts system

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Cat® Tier 2 Emissions and Performance Repower

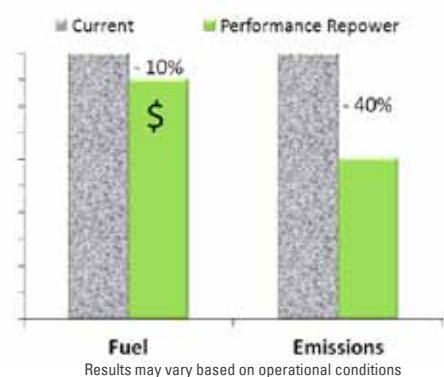
For Select D11R Track-Type Tractors



Reduce Emissions. Stay Competitive.

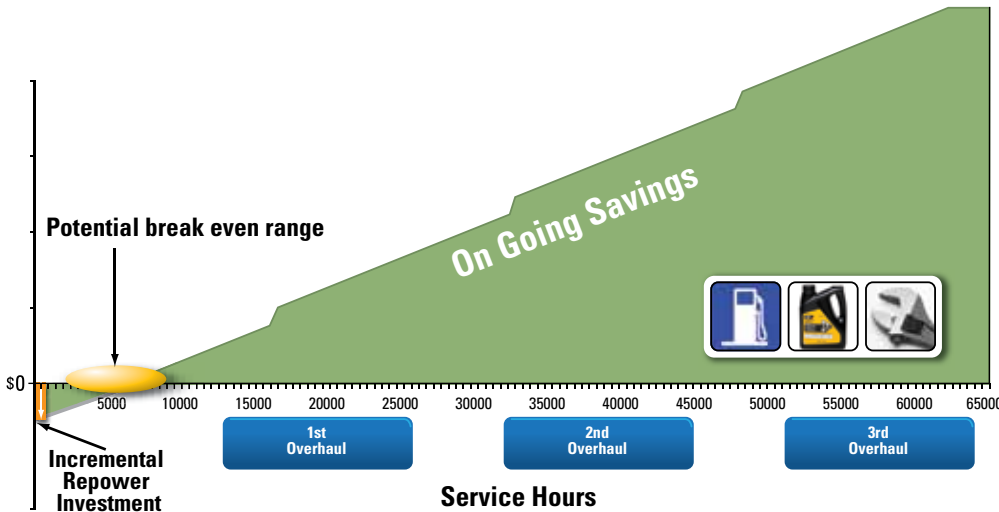
- Replacement engine system improves performance
- Uses system components proven in newer D11T production models
- Performance enhanced and matched to existing power train
- Potential 10 percent fuel savings
- Lower overhaul costs due to common platform parts
- Equipped with an EPA Replacement engine label
- **Bottom Line:** This repower can achieve a short return on investment, savings throughout the lifecycle of the machine, increased resale value, and Tier 2 level emissions compliance

Operational Savings and Emissions Reductions



Tier 2 Repower Solutions

Short Return on Investment and Ongoing Savings



Graphic compares the performance repower against a reman direct replacement or standard overhaul scenario. Green area represents the estimated cumulative savings over time. Results may vary based on operational conditions.

Features & Benefits



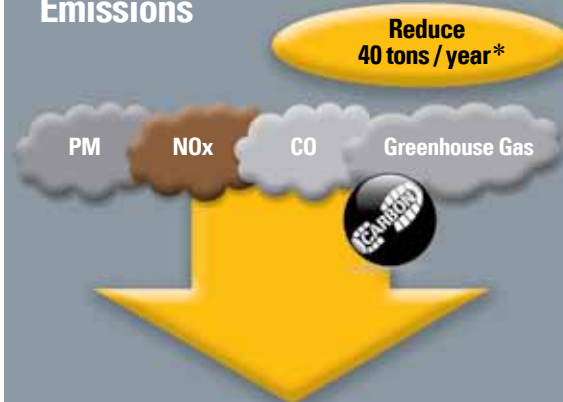
- Performance matched with proven D11T parts
- Potential 10% fuel savings demonstrated in a side by side field study
- Customer reported sound level improvements
- 60% increase in altitude capability (before de-rate)
- Capable of longer routine maintenance intervals (operation dependent)
- Lower overhaul costs due to common platform parts

How it works

The existing engine system will be removed and replaced with a production D11T engine system. Most conversion parts are available as a kit.



Emissions



*Estimates based on 5000 hours per year

Applicability

Applies to D11R machines with the serial number prefixes 9TR, 9XR, 7PZ, and AAF.

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