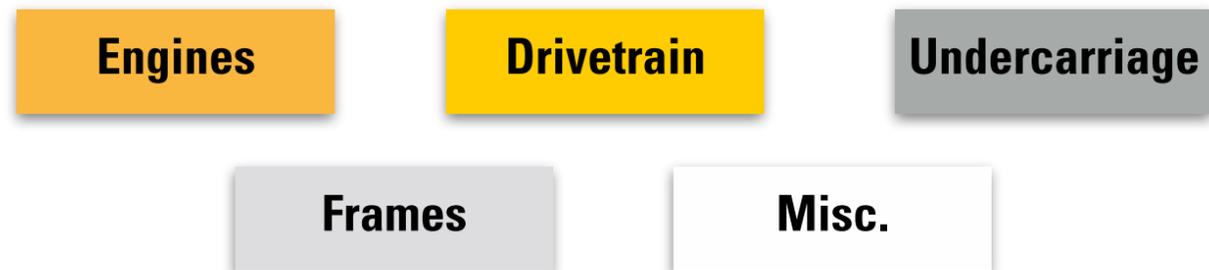

CERTIFIED REBUILD

YOUR BUSINESS NEEDS SOLUTIONS TO DEAL WITH AGEING EQUIPMENT

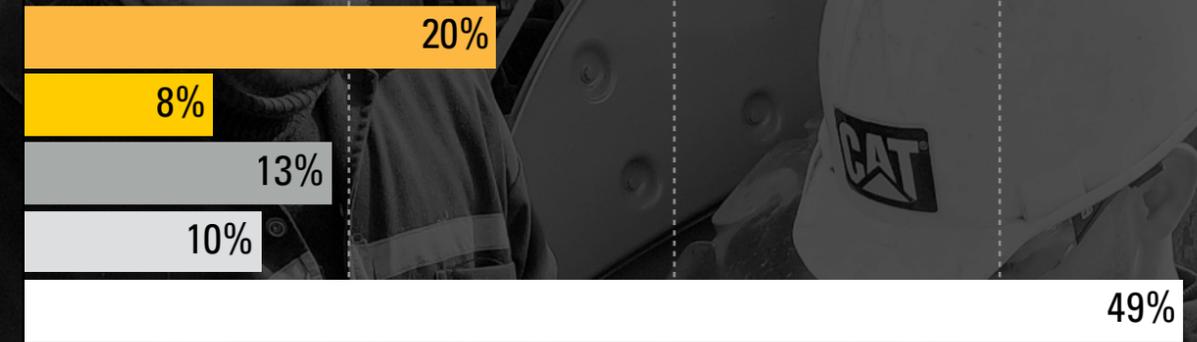
Your business depends on having the right equipment for the job. Mature equipment can fail in multiple ways, but among the most common components that cause downtime are its least notable parts.

But buying new equipment is not always the best business decision.



Profile of mature machine failures

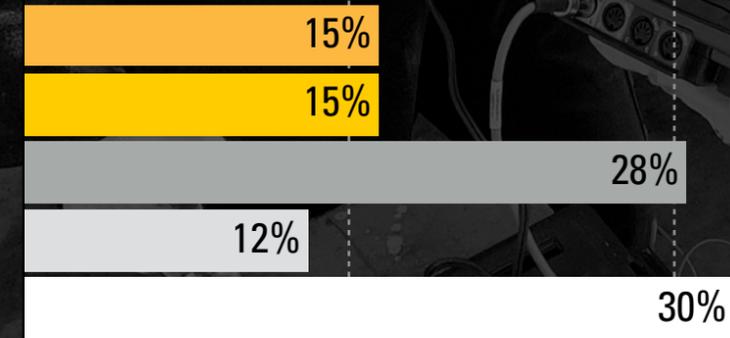
Incidents



Downtime



Cost



WE OFFER SIX REBUILD PROGRAMS TO GIVE EQUIPMENT A SECOND LIFE

CCR: Certified Full Machine Rebuild

CPT: Certified Power Train Rebuild (CPT "Plus" covers any additional parts, systems or components)

CHR: Certified Hydraulic Rebuild (HEX)

CER: Certified Commercial Engine Rebuild

CMCR: Certified Machine Component Rebuild



REBUILD GUARANTEES



All machines are rebuilt by Mantrac, no third parties involved



Only original, genuine Cat parts used for value retention and peace of mind



Reconditioned according to original Cat machine standards



Machine repair data available for your auditing



Attachments are covered within the rebuild, depending on feasibility

CAT Certified Rebuild



10 STEPS TO A QUALITY REBUILD

Each Cat Certified Rebuild follows a strict process for performance and satisfaction.



Step 1:

Inspection & evaluation

Complete machine inspection and evaluation including visual inspection and strip down. SOS evaluation determines if rebuild is required.



Step 2:

Disassembly

Hoses, belts, seals, gaskets, bearings, knobs, wiring, switches and gauges are replaced. Other parts are inspected and replaced with Reman or reconditioned parts.



Step 3:

Reconditioning

Frames are welded or reinforced as needed, linkages are replaced, hydraulic systems are renewed, EC modules and software is replaced.



Step 4:

Engineering updates

Addition of any post-manufacture improvements.



Step 5:

Power train tests

Inspection and reconditioning of engine, fuel system, transmission, torque converter, differential, final drives and radiator.

10 STEPS TO A QUALITY REBUILD

Each Cat Certified Rebuild follows a strict process for performance and satisfaction.



Step 6:

Reassembly

Maintenance of critical torques, clearances, and pressure settings. Replacement of engine wiring harnesses.



Step 7:

Performance testing

Turbocharger boost, throttle response, stall speed rpm, transmission and steering clutch response, hydraulic and pilot relief valve pressures, system cleanliness of ISO 18/15, and field and shop performance matching.



Step 8:

Repainting

Repainting, model identity graphics, Cat Certified Rebuild decal issued.



Step 9:

New serial/pin

New serial or product identification number, like-new standard warranty applied.



Step 10:

Customer evaluation

Completion upon your total satisfaction.

A WIDE RANGE OF BENEFITS

☑ Replacement of approx.
3,000 parts for power train

☑ Extended coverage on power train
(3y/ 5,000; 1y/6,000; 2y/10,000, and more)

☑ Includes critical engineering
updates and optional upgrades

☑ Replacement of approx.
7,000 parts for machines

☑ Budget flexibility (CAPEX, Repair
and maintenance expenses)

☑ Lower warranty expense than new,
with warranty on all added parts

☑ 350+ tests and
inspections

☑ Stay with the same machine
size & technology

☑ New machine Product
Identification Number

☑ No depreciation of a
rebuilt asset

☑ Provides improved
machine availability

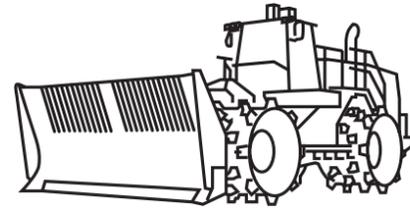
☑ Lower priced Cat Product Line option
with Mantrac support services

THE CAT CERTIFIED REBUILD PROGRAM IS AVAILABLE FOR:



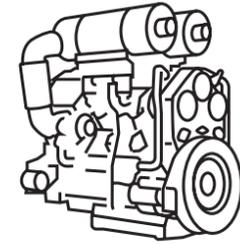
Articulated trucks

725,730, 735, 740, 740B



Compactors

836, 815B/F, 816B/F,
825G, 826C/G/H, 836G/H/K



Engines

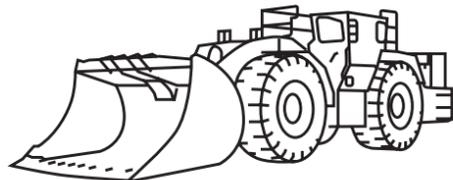
3116, 3306, 3406A/B/C, 3408A/B/C/E, 3412A/C, 3456, 3508A/B, 3512A/B/C, 3516A/B,
3606, 3608, 3612, 3616, 3618, 3126B, C7, C9, C10, C11, C12, C13, C15, C18, C27, C32

G3304, G3306, G3406, G3408, G3412, G3508, G3512, G3516A/B/C, G3520C, G3606A/B,
G3608, G3612, G3616, PM3516



Integrated toolcarriers

IT28B/F/G/H, IT62G/H



Underground mining loaders

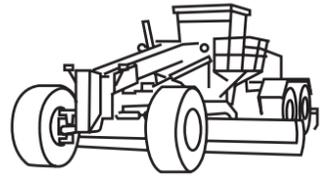
R1300G, R1600A/G/H, R1700G,
R2900A/G/H, R3000H



Hydraulic excavators

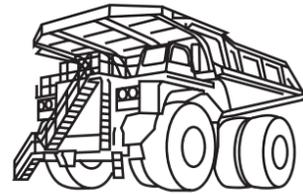
320A/B/C/D/N/S, 322A/B, 325, 330A/B/C/D, 350, 375, 5080, 5130A/B, 5230, 245B/D,
312C, 318C, 319C/D, 323D, 324D, 325A/B/C/D, 328D, 329D, 332C, 336D/E, 336E,
345B/C/D, 349D/E, 365B/C, 374D/F, 375, 385B/C, 390D, 5110B, 568FM, M315A/C/D,
M316C/D, M320, M322C/D, M325C/D

THE CAT CERTIFIED REBUILD PROGRAM IS AVAILABLE FOR:



Motor graders

120G/H/K, 12G/H/M, 130G, 135H,
140G/H/K/M, 143H, 14H/M, 160H/K/M,
163H, 16G/H/M, 24H/M



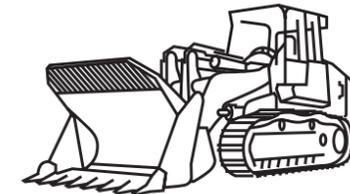
Off-highway trucks

769C/D, 770, 771C/D, 772, 773B/D/E/F/G,
775B/D/E/F, 776B/D, 777A/B/C/D/E/F/G,
785A/B/C/D, 789A/B/C/D/D XQ,
793A/B/C/C XQ/D/F, 797A/B/F



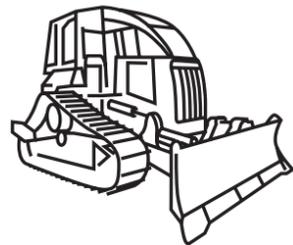
Well stimulation pump trailers

SPF343, SPF343C



Track-type loaders

953A/B/C/D, 963, 973,
933C, 939C, 953B, 963B/C/D,
973C/D, 977L



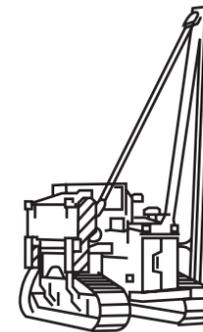
Track skidders

527



Track-type tractors

D10N/R/T/T2, D11N/R/T, D5B/G/H/K/M/N,
D6H/K/M/N/R/T, D7E, D7G/H/R, D8L/N/R/T,
D9L/N/R/T



Track-type tractor pipelayers

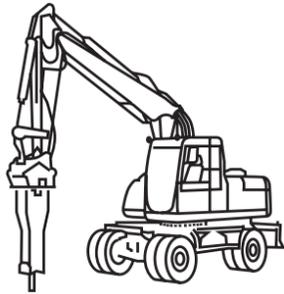
578, 589, 561D, 572R



Underground mining trucks

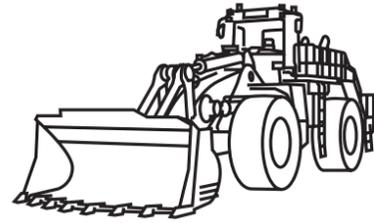
AD30, AD45A/B, AD55A/B,
AD60, AE40, R1300, R1600

THE CAT CERTIFIED REBUILD PROGRAM IS AVAILABLE FOR:



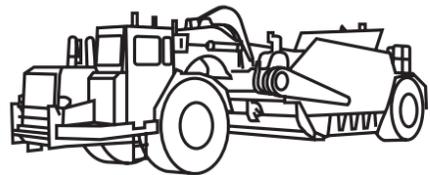
Wheel excavators

M316D, M318A/C/D,
M322C, M325D



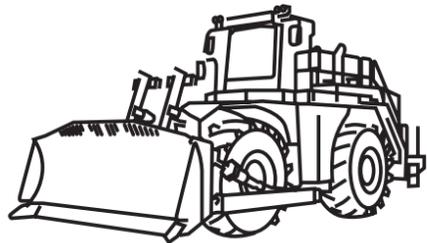
Wheel loaders

994, 914G, 924G/H, 928F/G/H, 930A/G/H/K, 936F, 938F/G/H/K, 950B/E/F/G/H/K, 960F, 962G/H, 966D/E/F/G/H/K, 970F, 972G/H/K, 980C/F/G/H/K/M, 988B/F/G/H/K, 990A/H/K, 992C/D/G/K, 993K, 994D/F/H, 996H



Wheel tractor scrapers

613C, 615C, 621E/F/G, 623E/F/G/H,
627E/F/G, 631E/G, 633D/E, 637D/E/G,
651E, 657E, 657G



Wheel dozers

814A/B/F/G, 815, 844, 824C/G/H,
826G, 834B/G/H/K, 844H, 854G/K



Wheel skidders

515, 525, 545, 518C, 525B/C,
535B/C, 545C/D, 621G, 637G

CCR IN ACTION: A CASE STUDY A LANDFILL OPERATION

CCR IN ACTION: A CASE STUDY

A LANDFILL OPERATION

Situation

A customer was in immediate need of equipment to meet demand at a landfill operation, but needed to:

- > **Limit expenses, yet procure productive machinery**
- > **Become operational as soon as possible**
- > **Maximise jobsite profitability**

Recommendation

A business case was created for rebuilding an existing machine to save costs while meeting business goals:

- > **Begin with a "pile of scrap" D6R**
- > **D6R had been inoperative for over 1 year**
- > **Go through a Certified Rebuild process**
- > **Include a System-One undercarriage**

CCR IN ACTION: A CASE STUDY A LANDFILL OPERATION

Result

Based on the performance of the rebuilt D6R after delivery, the customer committed to:

- > **A second D6R rebuild**
- > **The purchase of a new D6R**
- > **The program provided the customer two certified rebuilt D6R's for the price one new machine**

Before



After

