



# OEM CAT 3600 REMAN ENGINES

HIGHEST QUALITY OF PRODUCTS  
AND WORKMANSHIP GUARANTEED!

G3606A3, G3608A3, G3612A3, G3616A3



# 24/7 COMPRESSION IS NOW STOCKING OEM 3600 EXCHANGE ENGINES AND MAJOR COMPONENTS

Eliminating production downtime on the 3600 series product line.



## HOW WE HELP?

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All Exchange Engines and components are rebuilt in an OEM Caterpillar facility with a full warranty. This includes 1-year warranty coverage that applies to all major components and exchange engines. 24/7 Compression is the leading overhaul provider for the 3600 series family of engines for Northern Alberta and BC. We are able to do complete zero-hour engine Overhauls or Emergency repairs in both our Grande Prairie and Red Deer facilities.

## PRODUCTION MATTERS

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24/7 Compression understands the cost of downtime. We are able to turn 3600 engines around in very aggressive timelines. Often capable of turning most 3600 engines around in 6-10 days. Stocking Major components to help you get back online in unit-down situations.



### **Mechanical Services**

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Our OH process utilizes state-of-the-art machining services to maintain the Exchange 3600 engines and their major components, which we supply and operate 24/7.

# CORE CRITERIA

24/7 Compression is happy to spec your existing equipment and have a custom engine built to your exact requirements or specifications. Pending core availability and acceptable timelines.



## THE CRITERIA:



### BLOCKS

Engine Block must be free of cavitation, cracks, non-factory windows, or physical dents, dings and damage.



### CRANKSHAFT

Engine Crankshafts must be OEM and be free of cracks, breaks, pitting or flaking. Engine crankshaft cores must measure to OEM guidelines.



### CORE

Engine cores must be complete and the same as the supplied reman engine.



### Procedures taken for optimal performance:

#### Fuel System

- Prechambers and Check Valves- Caterpillar Reman
- Needle Valves - Caterpillar New
- Fuel control valve
- Fuel rail and supply tubing - NDT inspected, Caterpillar New if required\*
- Gas admission valves - Remanufactured at OEM using Caterpillar parts
- Air fuel Ratio Module - Caterpillar Reman

#### Oil System

- Main oil pump - Caterpillar Reman
- Oil pressure bypass valve - OEM Remanufactured or Caterpillar Reman Engine oil coolers - Caterpillar Reman
- Turbocharger Oil lines - Caterpillar New
- Engine oil filter set - Caterpillar New
- Pre-lube pump - OEM Remanufactured or Caterpillar Reman
- Priority Valve - OEM Remanufactured

#### Ignition and Control System

- Caterpillar Adem III
- All sensors Caterpillar New
- All engine control modules (ECM, ICSM, AFR); Caterpillar Reman (ECM set to 0 hours)
- Ignition and electrical harness's Caterpillar New
- Spark plugs, Ignition transformers, extensions - Caterpillar New \*
- \*Additional cost to upgrade core engine if not converted previously

#### Cooling System

- Aftercooler - Updated with Caterpillar New
- Water pumps - OEM Remanufactured or Caterpillar Reman

#### Hydrax System

- Caterpillar new or remanufactured Hydrax Pump with - Caterpillar New
- Hydrax actuators - Caterpillar Reman
- Hydrax lines - Caterpillar New
- Hydrax control shafts and bearings - Caterpillar New

### **Turbocharger**

- Remanufactured - OEM genuine parts

### **Exhaust Manifold**

- Completely disassembled and fully inspected
- All exhaust bellows - Caterpillar New
- Assembled resealing with Caterpillar New hardware
- Turbocharger intake and exhaust bellows - Caterpillar New
- Exhaust blankets - Caterpillar New

### **Crankcase**

- Explosion Doors - Rebuilt with Caterpillar New
- Engine breather - Caterpillar New
- Installation Parts
- All gaskets, seals, hoses, rubber bushings, isolators and grommets - Caterpillar New

### **Dynamometer Testing**

- Test run engine up to running temperatures
- Hyrax lube system dye tested to ensure operation
- Engine Oil tested for particulate during testing

### **Paint**

- Painted Caterpillar yellow
- Customer colour available upon request

## **EXCHANGE ENGINES**



Exchange Engines come zero-hour rebuilt with all OEM components. All parts will measure or spec to new condition.



# 3600 REMAN ENGINES

## ENGINE INCLUDES



Steps taken to ensure that the product is ready for performance:

### Cylinder Block

- Thorough cleaning and inspection
- Examination of oil and coolant passages
- NDT Testing (Full mag particle inspection)
- Comprehensive measurements
- Pressure testing
- Laser alignment of the main bearing bores
- Dimensional checking and machining of main bearing bores and caps as necessary
- Measuring and machining of upper and lower liner sleeve areas as required
- Machining of deck surfaces (if necessary) while remaining parallel to the centerline
- Repairing of corroded water holes and other damaged areas through spray welding (not insertion)

### Crankshaft

- Fully cleaned and inspected
- Standard-size mains and throws
- NDT Testing and comprehensive measurements
- Polished as determined during inspection
- Balanced prior to the final inspection
- Main bearings and thrust plates - Caterpillar New
- Starter ring gear - Caterpillar New
- Vibration Damper - OEM Remanufactured or Caterpillar Reman

### Cylinders

- Connecting Rods - Caterpillar Reman
- Liners, piston pins, pistons, and rings - Caterpillar New

### Valve train

- Camshaft segments inspected and polished, Caterpillar New if required \*
- Camshaft bearings - Caterpillar New
- Rocker arms (Intake, Exhaust), Lifter assemblies - Caterpillar Reman
- Rocker arms (GAV) - Inspected - Caterpillar New if required\*
- Rocker shafts inspected - Caterpillar New if required

All in-stock 3600 Reman engines are Dyno-tested and factory-tuned on a Powernet Dyno with full documentation.



### Cylinder heads

- Caterpillar Reman or OEM Reman with Caterpillar parts
- Cylinder Head Studs and nuts - Caterpillar New

### Gear train

- Gears inspected - Caterpillar new if required\*
- NDT Testing (Full mag particle inspection\*)
- Bushings - Caterpillar New



# RATE SHEET

## MECHANICAL SERVICES

### MECHANICAL RATES

Regular Hourly Rate	\$106
Overtime Hourly Rate	\$159

### MECHANICAL HELPER RATES

Regular Hourly Rate	\$85
Overtime Hourly Rate	\$130

### PICKER TRUCK W/OPERATOR

Hourly Rate	\$215
Truck Kilometers	\$1.65/km
Call Out Charge (Parts Only)	\$200

### OTHER RATES

Hotel	15%
Daily Accommodations	\$50 ≥ 12 hrs
Meal Allowance	\$85 / Overnight
Consumable Charges	6%
Parts Only Fuel Surcharge	3%

### SPECIALTY TOOL CHARGES

CAT 3600 Head Tooling	\$250/Day
Laser Aligner Tooling	\$250/Use
Plane Flatness Tooling	\$500/Day

### ABOUT RATES

Overtime charges apply after 8 hours, on weekdays before 8:00 A.M. or after 4:30 P.M. and anytime on weekends or stat holidays.



## 24/7 Compression Ltd.

### CONTACT

(403) 347-6875

(780) 532-5575

(250) 719-6889

(780) 723-2211

Red Deer Office

Grande Prairie Office

Dawson Creek Office

Edson Office