

RELIANCE INSIGHTS

August 2016 Newsletter

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We Keep Great Equipment Working Great!



Cummins B3.3L – Tier II Engine Kits

NEW ADDITIONS & EXPANDED COVERAGE

We are excited to announce new additions to our Cummins B3.3L engine parts line - expanded coverage now includes parts for Tier II engines!

The Cummins B3.3L engines are used in multiple Komatsu excavators and generator sets. Komatsu identifies the Cummins B3.3L engine as the 4D95LE. Additionally, these engines are used by many manufacturers in a variety of industrial and agricultural applications. Reliance offers high quality parts for the Cummins B3.3L engine at a competitive price. The full offering includes:

- ✔️ Overhaul kits
- ✔️ Full engine gaskets
- ✔️ Engine bearings
- ✔️ Oil seals
- ✔️ Piston & ring sets
- ✔️ Varied head parts
- ✔️ Rod & camshaft bushings
- ✔️ And more to come!

| OVERHAUL KIT | EMISSIONS | ASPIRATION | PISTON ASSEMBLES PART # |
|--------------|-----------|---------------------|------------------------------|
| RP1284 | Tier I | Naturally Aspirated | K3800877, K4089841, K4089842 |
| RP1285 | Tier I | Turbocharged | K4025237, K4025202, K4025205 |
| RP1303 | Tier II | Naturally Aspirated | K4089967, K4955548, K4955550 |
| RP1304 | Tier II | Turbocharged | K4089968, K4955549, K4955551 |



Our engine overhaul kits contain: pistons with pins and retainers, ring sets, rod and main bearings, connecting rod bolts and bushings, complete gasket set with crankshaft seals, camshaft bushings.



New Boreable Connecting Rod Bushings, part # KC6204313130S, are available for the Cummins B3.3L engine. When reconditioning a connecting rod, the correct centerline of piston pin bore-to-crankshaft bore must be maintained. Boreable bushings are approximately .020" smaller inside - this extra material allows for boring the bushings "off center," restoring the connecting rod to its proper center to center length. In fact, OE suppliers of new connecting rods bore the bushings because of inconsistencies in the forgings themselves.

Navistar DT466E and DT530 Engine Kits

HIGH QUALITY, LONG LIFE

Our inframe kits for the Navistar International DT466E and DT530 engine applications contain: cylinder kits, connecting rod bearings, crankshaft bearings, thrust bearing, head gasket set and pan gasket. All cylinder liners are induction hardened and all pistons are made with high quality aluminum with a Ni-Resist insert, assuring the best possible operating environment and long life for our Moly coated piston rings.

| ENGINE | INFRAME KIT | CYLINDER KIT | ENGINE TYPE | ENGINE NOTE | KIT NOTE |
|----------------|-------------|--------------|--------------------|-------------------------------------|---|
| Navistar DT466 | 311015 | 31824823 | PLN, 4.3007" bore | ESN 888341 and After, 469G prefix | 175HP to 230HP with 605 LBS @ 1500 RPM |
| Navistar DT466 | 311017 | 31824820 | PLN, 4.3007" bore | ESN 888341 and After, 469G prefix | 230 HP with 660 LBS @ 1600 RPM to 250 HP |
| Navistar DT466 | 311005 | 31825690 | HEUI, 4.3007" bore | ESN 980820 to 1194048, 469H prefix | 175 HP to 210 HP with 520 lbs torque @ 1450 RPM |
| Navistar DT466 | 311006 | 31824966 | HEUI, 4.3007" bore | ESN 980820 to 1126948, 469H prefix | 210 HP with 605 lbs torque @ 1450 RPM to 250 HP |
| Navistar DT466 | 311007 | 31830565 | HEUI, 4.3007" bore | ESN 1126949 to 1194048, 469H prefix | 210 HP with 605 lbs torque @ 1450 RPM to 250 HP |
| Navistar DT466 | 311008 | 31836192 | I-308, 4.587" bore | ESN 1194039 to 2000001, 470 prefix | 175 HP to 215 HP |
| Navistar DT466 | 311009 | 31836299 | I-308, 4.587" bore | ESN 1194039 to 2000001, 470 prefix | 230 HP to 300 HP |
| Navistar DT530 | 311018 | 31822333 | PLN, 4.5866" bore | ESN to 1194038, 530G prefix | to 300 HP |
| Navistar DT530 | 311019 | 31825547 | HEUI, 4.5866" bore | ESN to 1194038, 530H prefix | 250 HP to 275 HP |
| Navistar DT360 | RP304 | RP301 | 4.010" bore | ESN 39375 to 90975 | |
| Navistar DT360 | RP305 | RP302 | 4.010" bore | ESN 90976 and After | |



Cummins N14 Engine Kits

EXCELLENT WEAR RESISTANCE & OIL CONTROL



- ✓ Excellent coverage
- ✓ Extensive product support
- ✓ Quality performance

Our Cummins N14 product line includes kits for Celect Plus engines that utilize articulated pistons. The crowns are high quality steel forgings that wear very little, even after many, many hours of engine operation. Piston rings are all Moly faced, offering excellent wear resistance, long life, outstanding performance and oil control. Liners, pistons, ring sets, connecting rod bushings, engine bearings, as well as crankshaft seals, are all produced to exacting standards, ensuring optimum engine performance and long engine life.

| ENGINE | INFRAME KIT | CYLINDER KIT | ENGINE TYPE | ENGINE NOTE | KIT NOTE |
|-------------|-------------|--------------|-------------|--|--|
| Cummins N14 | 21030 | K3803740 | Celect Plus | Low compression, 2-piece piston, piston crown 3087635 | CPL's 1807, 1833, 2027, 2038, 2330, 2389, 2590 |
| Cummins N14 | 21001 | K3803742 | Celect Plus | High compression, 2-piece piston, piston crown 3087634 | CPL's 1809, 1844, 1852, 1896, 1921, 1924, 1987, 2003, 2025, 2033, 2143, 2228, 2261, 2287, 2390, 2391, 2403, 2506, 2591, 2592, 2861, 2862, 8023 |

Detroit Series 60 Bull Gear 23513559R

BE READY FOR INSPECTION

We offer a top quality remanufactured bull gear assembly, part # 23513559R, for Series 60 12.7L or Series 60 14.0L DDEC III and DDEC IV non-EGR engines, complete with bearings, hub and carrier.

TECH TIP

The bull gear directly drives nearly all of the gear-driven engine accessories, meshing with drive gears for the fuel pump drive, air compressor drive and power steering pump, water pump and alternator drive. It is important to check the gear lash for all of the gears that mate with the bull gear and camshaft idler gear. Excessive gear lash could be a sign that bearings are worn and could fail, resulting in damage to the front cover.

SAVINGS TIP

To protect against costly repairs due to severe engine damage from excessive gear lash, replace the bull gear at time of engine overhaul.



Employee Spotlight - Brandon May

MEET THE RELIANCE TEAM



BRANDON MAY
LINCOLN, NE

Brandon May is the Sales Manager at our Lincoln, NE location. He has been with the company for over 16 years, occupying the top salesman spot for more than half of those years and is our go-to guy for heavy duty and truck parts expertise.

Raised on a local farm, Brandon has always had a passion for working on vehicles and farm equipment. In his downtime, he rebuilds engines from classic pickups and tractors as part of a restoration shop located on his own property. He lives on acreage between Lincoln and Omaha with his wife of 11 years, Jill, and his son, Brian, age 6.

Brandon would like to thank all of his customers for their business. When asked what he likes the most about his job, he said, "I value the opportunity to talk with customers who share my interest in repairing engines. When they need a particular part, or help purchasing an engine kit, I am ready and willing to assist!"



The Reliance Insights newsletter is your source for product announcements, events, technical information, and much more. Take a look inside and see what's new!



We make every effort to ship from our closest location to reduce shipping time and charges.

Warehouses located in: Phoenix - AZ, Lincoln - NE, Harlan - IA, Lynn - IN, Jacksonville - FL, and Winnipeg - MB (Canada)

READY FOR THE ROAD

ALL ABOUT TRUCKS



Quality truck engine parts will make the long hauls smoother and each mile less taxing. This month we look at Navistar and Cummins engine kits, bull gear repair tips and more. We are also excited to debut new additions to our Cummins B3.3L engine parts line. **Take a look inside!**

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