

UNITIZED SEALS

UNITIZED SEALS HAVE BEEN THE INDUSTRY STANDARD FOR OIL FILLED HUB APPLICATIONS ON LARGER TRAILER AXLES FOR MANY YEARS. UNTIL RECENTLY THEY HAVE MAINLY BEEN AVAILABLE FOR 8000# AXLES, & ABOVE.

UNITIZED SEALS ARE MANUFACTURED WITH AN INNER & AN OUTER SEAL THAT ROTATE UPON EACH OTHER WITHIN THE SEAL BODY ITSELF.



THIS PROVIDES THE OPTIMUM SEAL PERFORMANCE & MAKES THEM IDEAL FOR OIL FILLED HUB APPLICATIONS. WHILE THEY ARE THE BEST TYPE OF SEAL FOR AN OIL FILLED HUB APPLICATION, THEY CAN ALSO BE USED WITH GREASE FILLED HUB APPLICATIONS.

ONE OF THE UNIQUE PROPERTIES OF THE UNITIZED SEAL IS THAT IT IS A PRESS FIT APPLICATION ON THE SPINDLE AS WELL AS THE HUB INTO WHICH IT IS INSTALLED.

THIS MEANS THAT THE SEAL WILL BE PRESSED INTO THE HUB, JUST AS YOU WOULD WITH A STANDARD SINGLE OR DOUBLE LIP GREASE SEAL, HOWEVER NOW THAT THIS IS DONE, IT WILL BE NECESSARY TO PRESS THE INNER SEAL ONTO THE SPINDLE SEAL SEAT.

THIS IS TYPICALLY ACCOMPLISHED BY PUTTING THE HUB, WITH THE OUTER BEARING IN PLACE, ONTO THE SPINDLE, & THEN TIGHTENING THE SPINDLE NUT DOWN, USING THE INCLINE PLANE OF THE SPINDLE THREADS AS THE TOOL TO COMPRESS THE INNER SEAL SLEEVE IN TO ITS FINAL RESTING PLACE, SECURELY ON THE SPINDLE.

NOW AS YOU TURN THE HUB, YOU WILL SEE THAT THE OUTER PORTION OF THE SEAL RIDES WITH THE HUB, WHILE THE INNER PORTION OF THE SEAL STAYS FIXED IN POSITION ON THE SPINDLE, & THE ROTATING INTERFACE THAT PROVIDES THE ACTUAL SEAL, IS INTERNAL TO THE SEAL ITSELF.

NOW THAT YOU HAVE THE SEAL PROPERLY INSTALLED IN PLACE, DON'T FORGET TO PRELOAD THE BEARINGS. TO ACCOMPLISH THIS TIGHTEN THE SPINDLE NUT ABOUT 1/4 TURN PAST THE SNUG POINT OF THE SPINDLE NUT, & THEN ROTOATE THE HUB 10 FULL REVOLUTIONS.

THIS WILL FULLY SEAT THE RACES & BEARINGS. NOW BACK OFF OF THE SPINDLE NUT, UNTIL LOOSE & THEN BRING THE SPINDLE NUT UP TO THE SNUG FIT POINT. YOU CAN NOW INSERT THE COTTERPIN OR ENGAGE THE TAB WASHER OR OTHER SPINDLE NUT RETAINING DEVICE.

WE HAVE THESE SEALS AVAILABLE FOR THE 3500# AXLE THAT USES A 68149 INNER BEARING WITH A 1.71" SPINDLE SEAL SEAT DAIMETER. THAT IS SEAL PART # 171255OIL.

WE ALSO HAVE THE SEALS TO FIT THE 5200#, OR 6000# OR 7000# AXLES THAT USE THE INNER BEARING OF 25580 & HAVE A 2.250" SPINDLE SEAL SEAT DIAMETER. THAT SEAL PART # IS 22333OIL.

UPON COMPLETION OF THE INSTALLATION YOU WILL NOTE THAT THE HUBS SEEM TIGHT. THIS IS A NORMAL RESULT OF USING THE UNITIZED SEAL.

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