Lubrication technology for modern agriculture
Today’s farmers face many of the same challenges their parents and grandparents faced – too much or not enough rain, market fluctuations, machinery breakdowns and grueling 24-hour workdays during planting, growing and harvesting. So many factors are beyond their control, threatening not only profitability but also their way of life.

To gain more control, farmers seek new solutions and product innovations including advanced computer technology, yield monitoring, platform and header controls and global positioning systems. Still, reliance on the tried and true benefits that come from experience will never be replaced. The names of top equipment manufacturers and the value of a good reputation endure.

When addressing lubrication for agricultural equipment, farmers balance both innovation and experience. They look for the latest methods to protect their huge investment and at the same time want to rely on a company they know and trust.

The Lincoln advantage

Lincoln has been inventing and improving lubrication practices for agriculture, automobiles and industry since 1910. The company has been awarded more U.S. patents for lubrication equipment than all other competitors combined.

With so many innovations in lubrication, and a worldwide network of knowledgeable support professionals, farmers trust Lincoln quality and service.

As a leader in the lubrication industry, Lincoln provides numerous options. Lincoln designs and manufactures everything you need – from automatic lubrication systems to a full line of manual lubrication tools and equipment.
It’s your choice: three lubrication options

Automatic lubrication – feeds all points on equipment while it is operating
Automatic lubrication combines a pump, controller, lubricant measuring devices, feed lines and fittings. The system delivers grease in small, precise doses at regular intervals to vital components while the equipment is operating. The optimal time to lubricate is during operation – when all the surfaces that bear the load are continuously being exposed. As a result, lubricant can penetrate the entire wear surface while continuously purging contaminants.

Centralized lubrication – feeds components from a single point
Centralized lubrication feeds a number of components from one location. A more efficient method of lubricating, the centralized approach is often lower in cost. The operator or mechanic uses a grease gun and applies lubricant to a conveniently placed central divider valve that feeds grease directly to every bearing without having to climb on or under the equipment.

Manual lubrication – performed point-by-point
Manual lubrication defines the process of lubricating equipment one fitting at a time. Usually performed during routine maintenance before the equipment is taken out in the field, manual lubrication can take 30 minutes to an hour to lubricate every point. If performed consistently, manual lubrication can be effective.

Proper lubrication involves the best use of all of these technologies to their full advantage. Your Lincoln representative can help you determine the best choices for you and your operation.

Benefits of automatic lubrication

- **Lubricant volume per lube event**
  - Too much lubrication = product contamination and breached seals
  - Optimal
  - Too little lubrication = friction and wear

Improve lubrication practices
Automatic lubrication applies smaller amounts of lubricant frequently, maintaining the correct amount of grease in the bearing at all times as compared to the feast and famine conditions often associated with manual lubrication.

Cut operating expenses
- Eliminate downtime costs for component-related failures
- Reduce labor costs associated with manual lubrication
- Increase time in the field by ½ to 1 hour per day
- An investment in automatic lubrication will quickly pay for itself
Farm applications

As you know, having your combine available and running at peak performance is critical during the harvest season. Due to severe weather conditions and other potential challenges, time in the field is critical.

Lincoln Quicklub systems can:
• Save you time – 30 minutes each day, which can give you yields of approximately five more acres a day.
• By not climbing all over the combine to manually lubricate hard-to-reach fittings, you can work safely and avoid getting greasy and dirty – before you climb into the cab.
• It never breaks down in the shed! Automatic lubrication systems significantly reduce component failures.

Most implements, due to their weight and size and exposure to field conditions, need to be lubricated once a day. Often these lubrication points are spread out and are underneath the equipment.

Centralized lubrication is often the most cost-effective solution for protecting this equipment. Each valve divides and proportions grease to the connected components.

Saves time and ensures every point is lubricated.
• With a valve mounted in an accessible location, lubrication can be done standing up, using a Lincoln manual, pneumatic or electric grease gun. Complete the job safely and cleanly.
• A pump can be installed on your tractor to lubricate it and the centralized valves on your implements, allowing them all to be protected automatically.
Hay balers
Baling hay is a lot like harvesting crops. Uptime and availability is critical. Most baler manufacturers now offer centralized and automatic systems as factory fit options covering the numerous body points and the knotter. Manual lubrication can take over an hour on these machines, which relates to 35 bales of hay production.

- Automatic systems give back that hour per day, or 35 additional bales.
- Component failures and resulting downtime are significantly reduced.
- Dirty, greasy manual lubrication is eliminated. All you have to do is check the reservoir.

Cotton pickers
The advantages of automatic lubrication are so clear, one major manufacturer, Case IH, makes Quicklub a standard feature on every cotton picker they sell.

- Eliminating manual lubrication can save you an hour every morning, that equates to six more acres of work per day or more time for maintenance on your picker and other equipment.
- With the Quicklub system, you can maximize the life of your drum head components by eliminating premature wear on these costly high wear items.
The system that’s right for you

Quicklub automatic lubrication
Lincoln’s Quicklub system gives you the ability to supply a precise amount of grease to each and every wear point on your equipment while it’s operating. The heart of the system is the rugged, one-piece Quicklub SSV divider valve. This valve, utilizing unique internal pistons, “divides” the grease and sends the appropriate amount to each lubrication point.

As a system is designed for a specific machine, multiple valves are used, each one configured to meet the unique lubrication requirements of every lubrication point on the machine. The electric pump that powers the system is programmed to activate at regular intervals while the machine is working out in the field.

Quicklub 203 electric pump
Our best seller, the 203 pump, is perfect for equipment demanding a higher volume of lubrication. Top equipment manufacturers feature the Quicklub 203 pump as part of automatic lubrication systems they offer as standard equipment, factory-fit option or as aftermarket options available through their dealer networks.

Some of the features include:
- Large, clear reservoir with available capacities of 1/2, 1 or 2 gal. (2, 4 or 8 liter).
- Vibration and shock resistant
- Unique, lightweight synthetic housing
- Integrated timer with manual override

Quicklub QLS 301
If you require a system for machinery with less lubrication demand, the QLS 301 is for you. A complete system, the QLS 301 comes pre-assembled with a pump, integrated controls and a metering valve. It’s compact, rugged, easy to install and easy to use.

By adding five secondary valves, the QLS 301 can lubricate a combine with 47 points using NLGI #2 grease. QLS 301 can handle temperatures between –10 °F to +158 °F (–23 ° to +70 °C) and stands up to high-pressure washdowns. With a built-in safety valve, overfill protection, reservoir low-level alarm and blocked line detection capability, the QLS 301 is a great value.
Centralized lubrication

Our single-point, centralized approach ensures quick and proper maintenance on combines, balers, tractors and implements. The results are dramatic: It reduces lubrication time by more than 90 percent and extends the life of all components. Because the cost is lower, you can easily justify adding centralized lubrication to your tillers, seeders, planters and other equipment you now lubricate one point at a time.

You have three options for using this approach: First, using a grease gun, you can supply lubricant to a single metering valve mounted in a convenient location. The valve in turn can supply up to 18 lubrication points. Second, you can set up a master metering valve to supply lubricant to several zoned valves, each capable of servicing up to 18 points. Third, the system becomes automatic when you add the electric grease pump and timer to your master valve and secondary valve arrangement.

PowerLuber – using a grease gun will never be the same!

If you haven’t replaced your grease gun with a PowerLuber, you’re working much harder than you have to. The 12 V, battery-powered PowerLuber generates as much as 6,000 psi (414 bar) of working pressure, and each battery will dispense two tubes of grease. The convenient whip hose allows for easier access on hard-to-reach points and the comfortable trigger facilitates one-hand operation.

If you need extended battery use, order model 1244 in a case with two batteries, or select model 1215 battery charger that plugs into the accessory/lighter receptacle of your combine or tractor.

Back in your shop, attach the new PowerLuber model 1163 air-powered grease gun to your compressor for maximum productivity.

Both the battery-powered and air-powered units can handle your manual lubrication applications faster and more efficiently than any lever grease gun. Plus, they’re ideal for refilling reservoirs on your automatic systems and supplying lubricant to machinery equipped with centralized lubrication.

A tractor equipped with a grease pump could supply automated efficiency to numerous implements equipped with centralized systems simply by setting the timer to meet the needs of each unit.
The Power of Knowledge Engineering

Drawing on five areas of competence and application-specific expertise amassed over more than 100 years, SKF brings innovative solutions to OEMs and production facilities in every major industry worldwide. These five competence areas include bearings and units, seals, lubrication systems, mechatronics (combining mechanics and electronics into intelligent systems), and a wide range of services, from 3-D computer modeling to advanced condition monitoring and reliability and asset management systems. A global presence provides SKF customers uniform quality standards and worldwide product availability.

Important information on product usage

All products from SKF may be used only for their intended purpose as described in this brochure and in any instructions. If operating instructions are supplied with the products, they must be read and followed.

Not all lubricants are suitable for use in centralized lubrication systems. SKF does offer an inspection service to test customer supplied lubricant to determine if it can be used in a centralized system. SKF lubrication systems or their components are not approved for use with gases, liquefied gases, pressurized gases in solution and fluids with a vapor pressure exceeding normal atmospheric pressure (1 013 mbar) by more than 0.5 bar at their maximum permissible temperature.

Hazardous materials of any kind, especially the materials classified as hazardous by European Community Directive EC 67/548/EEC, Article 2, Par. 2, may only be used to fill SKF centralized lubrication systems and components and delivered and/or distributed with the same after consulting with and receiving written approval from SKF.

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