



CASE STUDY: COMPACT WHEEL LOADER

APPLICATION: AUTOLUBE FOR JD308

FLO Components was approached by a customer for an Automatic Lube Solution to ensure their new John Deere loader, the workhorse of the operation, stayed up and running. They wanted a system that was easy to service and which didn't require a special grease.



THE FLO SOLUTION

The FLO system consists of a Graco G3® 24 VDC pump with 2L reservoir, Graco MSP positive displacement grease metering valves, an in-cab monitoring box with audible alarm, and fittings, tubing and hose with standard re-usable hydraulic hose ends and adapters. Heavy duty steel guarding is used to protect the hoses and connections. High-impact steel tube is used in high damage areas throughout the loader. On smaller construction equipment such as this, space for attachments is at a premium. FLO technicians worked closely with the customer to custom fabricate the mounting brackets onsite, to mount the pump in a location where it wouldn't obstruct equipment operation.

System Features:

- Points serviced by the system include tilt link, tilt link pivot, boom and bucket cylinder pins, boom base, upper/lower boom and bucket pivot pins, oscillating axles, steer cylinders barrel and rod end, and upper/lower articulation.
- The pump is controlled by the machine ignition switch. It includes an integrated adjustable timer for trouble-free operation and maximum flexibility to quickly adjust grease frequency to suit any location, environment or requirement. No additional air or hydraulic hook-ups are required, giving long-term installation dependability.
- Grease delivery to bearings is monitored by the visual cycle indicator pin (CIP) on the master MSP grease metering valve. When the system cycles, the CIP shuttles back and forth, the wiper/paddle rotates in the reservoir and a pressure gauge shows operating pressure, allowing the operator to easily and quickly monitor system performance.
- MSP progressive valve assemblies are modular in design, so servicing and individual volume adjustment (if operators want to provide more lubricant to a specific point) can be done quickly without having to disturb or remove any grease lines.
- Each MSP valve is supplied with a back-up remote, manual, high-pressure lubrication fitting. In the unlikely event of a system shut-down due to a blocked line, the remaining MSP valves can still be greased through the back-up grease fittings until the machine can be taken out of operation for repair. Personnel can quickly and easily trouble-shoot and prime/flush individual lines without having to disturb/remove any fittings. If an attachment is changed, one can easily prime the bearing housing before the pin is installed.
- An in-line high-pressure grease filter with a cleanable and re-usable filter screen protects against contaminants.
- The FLO system is suitable for most off-the-shelf North American greases and will handle lubricants up to an NLGI #2 rating, eliminating the requirement for any "specialized" grease.



FLO RESULTS

FLO's Lube System greases the loader as it operates, ensuring it stays up and running and eliminating the downtime normally required by manual greasing.

**For Total Lube Solutions,
GO WITH THE FLO!**

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