

Application Success Story

Mobile Off-road



Application Overview

Municipality. Used on Volvo L120F Wheel Loader, used for loading salt into salt trucks, etc.

Why Automatic Lubrication?

More frequent lubrication cycles will prolong life of pins and bushings. The Wheel Loader is quite active during winter months and operators tend to neglect lubrication if performed manually.

BDI Products

- + TTN Progressive Lubricator
- + PVB Mobile Divider Valves

Advantages

- + Cost effective system
- + Longer maintenance intervals
- + Lower costs for repair parts
- + Improved operating time
- + Local distribution and support
- + The lubrication system greases every point while the loader is in operation (better coverage of larger bushings)
- + Manual lubrication was too time consuming and not being done regularly
- + No more climbing on the machine to get at hard to reach grease fittings
- + Maintains constant barrier at bushings preventing dust and dirt from entering wear surfaces

Please contact factory for additional information on this or any other application.

Products Utilized for Volvo L220F Wheel Loader

TTN Progressive Lubricator

+ **Description:** 24 VDC, 4 liter (8 lb) reservoir, with a low level switch and built-in controller

TTN Progressive Lubricators are electrically driven piston pumps designed for use with series progressive systems. These lubricators can be fitted with up to three independent piston elements providing positive displacement output to series progressive divider valves. TTN Progressive Lubricators are available with an integral programmable controller, low level switch and various reservoir capacities. Operating voltages are either 12 or 24 VDC.



PVB Divider Valves

+ **Description:** 1 master unit (10 outlet block with cycle pin) and 3 secondary units

PVB Mobile Divider Valves accurately meter and dispense lubricant to as many as 20 outlet lines at operating pressures up to 3600 psi (248 bar). Output volumes are fixed at 0.17cc (0.01 cu. in.) per cycle but can be combined with other outlets by using appropriate fittings for larger outputs. Valves are available with cycle indicator pins to provide visual confirmation of system operation. In addition the cycle pin can be fitted with a switch to provide electrical feedback to a system controller.



Typical System Layout

TTN Progressive Lubricator with single element, 4 liter reservoir and PVB Dividers (1 master unit, 3 secondary units). Automatic greasing of 26 points that would normally require operator to do; sometimes during unsafe conditions (snow and ice).

Refer to the following datasheets:

+ *Datasheet #35492:*
TTN Progressive Lubricator

+ *Datasheet #35635:*
PVB Mobile Divider Valve

Background

This is their first experience with automatic lubrication and Bijur Delimon International; they recognized that other municipalities are using it and wanted to evaluate it. Since this was installed BDI has quoted systems for their salt trucks and another loader.

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