

Application Success

Mobile On-road & Off-road



Application Overview

Side load waste truck.

Why Automatic Lubrication?

They were losing too many bushings due to a lack of lubrication and they also had to downsize the maintenance department.

BDI Products

- + TTN Progressive Lubricator
- + PVB Divider Valves
- + SMDC Controller

Advantages

- + Competitive pricing
- + Having a controller which can be mounted in the cab without taking up too much room
- + The bellows help keep the grease free of external contaminants
- + Local distribution and support
- + Quality products

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

Products Utilized for Side Load Waste Trucks

TTN Progressive Lubricator

- + **Description:** 24 VDC, 4 liter (8 lb) reservoir, with a low level switch, used with a SMDC 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:** 4, 6 and 8 outlet valves were used, the master valve utilized a cycle switch

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.



SMDC Controller

- + **Description:** Part #33346M with external terminal strip connections

The SMDC Controller, for mobile, is a multi-purpose programmable controller used with on-board mobile lubrication systems. The unit is energized by the vehicle or machine's ignition switch. Controller settings are saved whenever power is interrupted. Up to four operating modes can be selected which allows the controller to be used with various lubrication system designs. A voltage selector switch is located inside the enclosure for both 12 and 24 VDC service.



Typical System Layout

28 points of lubrication using TTN Progressive Lubricator, PVB Divider Valves and SMDC Controller. All lubrication points were connected with high pressure hose to expedite the installation process.

Background

Bijur Delimon offered a lubrication system with a mobile pump for injectors that does not have a built in timer. The customer preferred this because they wanted the controller mounted in the cab so the operator could monitor the lubrication system for proper operation.

Refer to the following datasheets:

- + *Datasheet #35492:*
TTN Progressive Lubricator
- + *Datasheet #35635:*
PVB Mobile Divider Valve
- + *Datasheet #46911:*
SMDC Controller

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