

Application Success

Mobile Off-road



Application Overview

Cat 775 Haul Truck.

Why Automatic Lubrication?

The haul trucks came from the factory with a set of divider valves for manual lubing of the grease points- this proved to be too time consuming.

BDI Products

- + TTN Progressive Lubricator
- + PVB Divider Valves

Advantages

- + The lubrication system greases every point while the haul truck is running
- + The PVB cycle switch signals the BDI controller that the lubrication system operating parameters has been met
- + The automatic lubrication system frees up maintenance personnel to focus on other issues besides greasing the truck
- + Local distribution and support

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

Products Utilized for Cat 775 Haul Truck

TTN Progressive Lubricator

- + **Description:** 24 VDC, 4 liter (8 lb) reservoir, with a low level switch, used with an integral programmable 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:** 6 and 8 outlet valves were used, cycle indicator pins were supplied

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

38 lubrication points with TTN Progressive Lubricator and PVB Divider Valves were tied into existing grease system. High pressure hose was used to expedite installation.

Background

These trucks are used at a large quarry in Pennsylvania. They were delivered with a set of divider valves intended for manual lubrication. The time it took to manually lubricate the trucks was not acceptable to the owner. The money spent to upgrade these to fully automatic lubrication systems was easily recouped in a few months.

Refer to the following datasheets:

+ *Datasheet #35492:*
TTN Progressive Lubricator

+ *Datasheet #35635:*
PVB Mobile Divider Valve

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