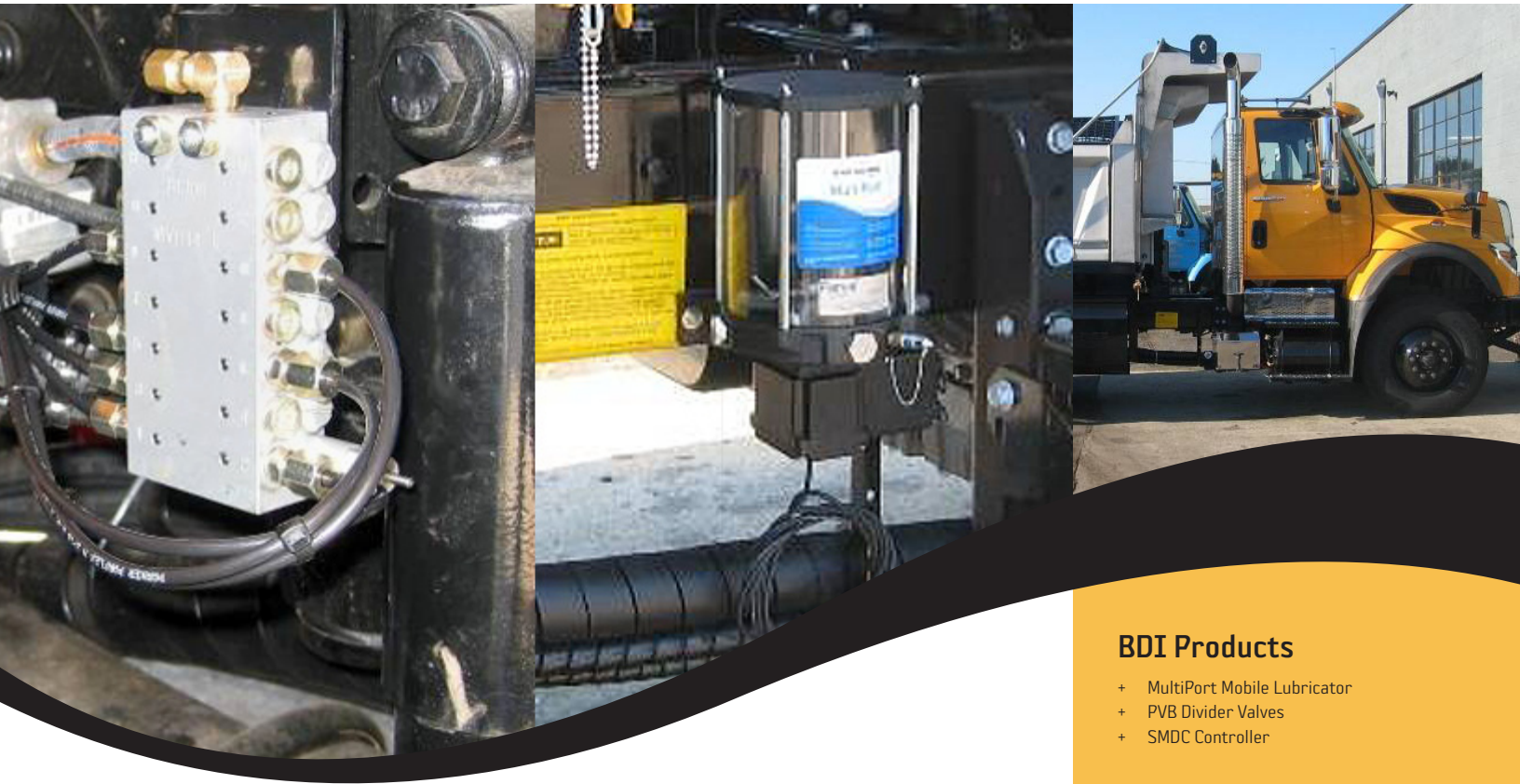


Application Success

Mobile Off-road



Application Overview

WorkStar tandem dump trucks with sidewinder.

Why Automatic Lubrication?

The trucks came from the factory with no lubrication system. The end user wanted an automatic lubrication system installed before commissioning it and that's where Bijur Delimon came in. They contacted the local BDI distributor who quoted material and installation.

BDI Products

- + MultiPort Mobile Lubricator
- + PVB Divider Valves
- + SMDC Controller

Advantages

- + The lubrication system greases every point while the truck is running
- + The automatic lubrication system frees up maintenance personnel to focus on other issues besides greasing the truck
- + The MultiPort Lubricator operates off the trucks 12 VDC system
- + Longer maintenance intervals
- + Lower costs for repair parts
- + Improved operating time

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

Products Utilized for WorkStar Tandem Dump Trucks

MultiPort Mobile Lubricator

+ **Description:** 12 VDC, 4 liter (8 lb) reservoir, grease

The MultiPort Lubricator is an electrically driven multiple outlet lubrication unit design primarily for use with progressive divider valve systems. The unit is capable of housing up to three independent pumping elements for direct feed to lubrication points or through a distribution network of progressive divider valves. These lubricators are available with either 12 or 24 VDC motors which make them ideal for use in mobile applications. Use of a remote timer/controller (SMDC) is required for this lubricator.



PVB Divider Valves

+ **Description:** 4, 6, 8 and 10 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.



SMDC Controller

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

The SMDC Mobile Controller 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

There are 20 points of lubrication between the MultiPort Mobile Lubricator, PVB Divider Valves and SMDC Controller. All lubrication points were connected with high pressure hose to expedite the installation process.

Background

The customer who is on the east coast had purchased a competitor's grease system but had to send the truck to the Midwest for installation. The dealership paid more than what they expected to pay plus there were delays associated with putting the system on out there.

When they found out that we were developing products that would hold up on salt trucks, they felt we were listening to them and deserved to be on future trucks. BDI provided complete turnkey for end user and will service in the future as required.

Refer to the following datasheets:

- + Datasheet #35577:
MultiPort Mobile Lubricator
- + Datasheet #35635:
PVB Mobile Divider Valve
- + Datasheet #46911:
SMDC Controller

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