

CASE STUDY



Twelve Years in High Viscosity Service

Corn Syrup Manufacturer, Leola, PA

Twelve years and still going strong! Discflo replaced a positive displacement pump at a corn syrup manufacturer in Leola, PA, in 1988, for pumping a blend of fructose, liquid sugar and water. It is still running in the same application 12 years later with the only maintenance being the replacement of the seal about once a year. (The company runs the pump dry without seal protection, causing this high level of seal failure.)

The company president had this to say about the disc pump: "It offered several advantages over existing positive displacement type pumps. First the initial cost was lower, and it could handle various viscosities at higher operating speeds while displacing higher flow rates. It also eliminated a gear reducer and extra coupling, while taking up less space. The increase in flow (up to 350 GPM) allowed us to blend and load trucks faster."

The Disc Pump is a Model 403-14-2D with a 25 HP motor running at 1800 RPM on a variable speed inverter. It has a design capacity of 350 GPM at 30ft TDH. The fructose blend has a high viscosity of 6500 cP and a specific gravity of 1.2.

The Challenge

6500 cP viscosity, and specific gravity of 1.2

High operating and capital cost of positive displacement pump

Varying viscosity of flow

The Discflo Solution

Discflo designed specifically to handle very high viscosities

Lower capital and operating costs

Handles varying viscosities with ease and at higher flow rates



Call Discflo now to find out how our pumps can solve your problems.