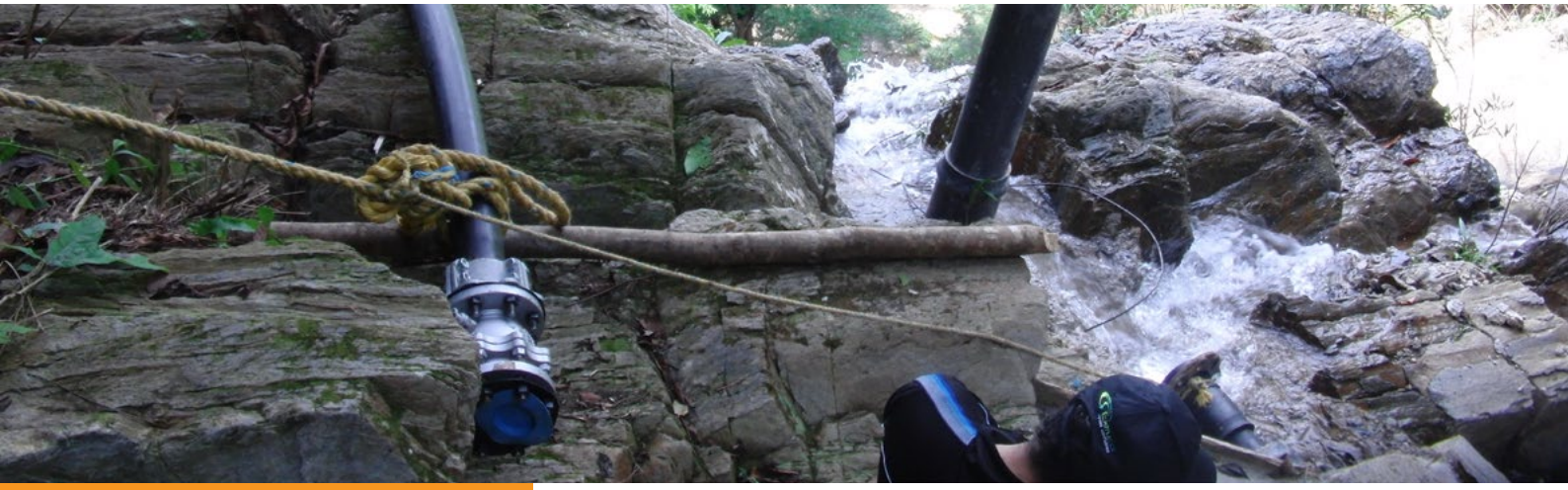
Case Study #56

Biodiesel Transport through the Colombian Jungle



Indupalma (Oro Rojo Plant)

Colombia | 2012

- **Working Conditions**

  Temperature: Fluid at 95°C
  Pressure: 10 bar

- **Pexgol Pipe**

  Pexgol 160 mm (6"), Class 24

- **Application**

  Biodiesel Transport

- **Length**

  450 m

The Challenge

Indupalma is a company that produces palm oil and its derivatives. One of the most common uses of palm oil is for the production of biodiesel. Initially, Indupalma used asbestos pipes for transporting biodiesel, which were later replaced by CPCV SCH 80 pipes. Neither of these materials was resistant to abrasion and the high temperatures of the fluid. Moreover, due to the jungle terrain (where there are constant rains and landslides), these pipes often broke completely due to the movement of rocks and trees. This situation caused losses for the company, not only due to production stoppages and the constant need to replace the pipes, but also because of spills that had environmental consequences.

The Solution

After witnessing the poor performance of these pipe materials, Indupalma decided to look for a new pipe material that could withstand impact, chemical resistance, and high temperatures to transport the fluid. They ultimately chose Pexgol pipes, which met all these requirements.

Pexgol

The Advantages of Pexgol Pipe Systems

High resistance to wear
Pexgol is the preferred solution for abrasive materials transportation. Typically resists three times more than HDPE and twice more than steel.

Excellent chemical and corrosion resistance
Pexgol pipes can resist a wide range of chemical agents, slurries, toxic and radioactive materials.

High temperature resistance
Working temperatures can range from -50°C / -58°F up to 110°C/230°F.

Superb internal and external corrosion resistance
Our pipes are proven to withstand decades of exposure to corrosive environments, with nonstop performance in some of the world's harshest environments.

Long pipe sections
Pexgol pipes can be supplied in long coil lengths, reducing number of joints, installation time and risks.

Creep and impact resistance
Pexgol pipes can withstand high amounts of axial and radial stresses and are highly resistant to impact, fracture and fatigue. Furthermore, Pexgol pipes are completely resistant to cracks even when dragged over sharp rocky terrain and coagulated salt crystals.

For more information please visit:
pexgol.com