



Krytox™ XP 2A3 and XP 2A5

Performance Lubricants

Greases for Kerosene Pipeline Valve Application

French airport authority reduces maintenance costs by switching lubricants

French airport extends pipeline maintenance cycle by eliminating valve failures

An international airport located in France was experiencing premature valve failures in its jet fuel pipeline every four to six months. The airport authority wanted to find a way to avoid these frequent, costly service disruptions and reduce overall maintenance costs.

The Challenge

The pipeline valves were currently being lubricated with a hydrocarbon-based grease that was being washed away by jet fuel. To extend the life of the valves, this application required a non-reactive, nonflammable lubricant that could withstand high pressure as well as not be washed away by jet fuel.

The Solution

Krytox™ XP 2A3 and XP 2A5 greases easily met the requirements of the pipeline valve application. Krytox™ specialty greases, which are not soluble in jet fuel, are chemically inert and compatible with valves, seals, and metals—making them ideal for use in the pipeline. By providing enhanced, long-lasting lubrication, Krytox™ XP 2A3 and XP 2A5 greases significantly extended the service life of the valves. Now, instead of replacing damaged valves every four to six months, preventive maintenance and re-lubrication are required only every 30 months.

Key Advantages

- Using Krytox™ XP 2A3 and XP 2A5 greases, the airport authority was able to achieve annual savings of €15,000 to €20,000 on the maintenance of its jet fuel pipeline. Now, maintenance is performed every 30 months instead of every four to six months, and unscheduled shutdowns due to valve failures have been eliminated.
- Krytox™ XP 2A3 and XP 2A5 can also be used in valve applications for gas and crude oil pipelines, as well as in valves for other chemical distribution systems.



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