

# Application Bulletin



## PRIMARY METALS

### Application

Steel cold mill drives typically use high viscosity lube oils due to the extreme operating environments.

#### System Operating parameters:

Flow: 240 L/min (63 US gpm)

Pressure: 8 bar (120 psid)

Fluid: ISO 150 EP gear oil

Viscosity: 150 cSt (700 SUS)

Operating temperature: 49°C (120°F)

### Problem

A mill was experiencing excessive component wear damage following a system re-build with no filtration installed. A low pressure drop filtration solution was required to protect the system and minimise the effects of wear.

### Solution

An **Ultipleat** SRT UR319 series 40" length filter assembly installed on each side of the switching valve. With 3" ports and 'AT' grade ( $\beta_{25(c)} > 1000$ ) media, the total clean assembly pressure drop is only 0.7 bar (9.9 psid).

### Results

The excellent flow and pressure drop characteristics of the **Ultipleat** SRT assemblies allowed for a compact, easy to install solution to the customers problem.  $\beta_{25(c)} > 1000$  achieving 17/15/08 ISO 4406 cleanliness code oil quality, particulate-related wear damage in the drives has been significantly reduced at this site.

**Ultipleat® SRT filters protect Steel Cold Mill Stands and Drives**



UR319 Series Ultipleat SRT Filter

Contact us at [www.pall.com](http://www.pall.com)