



Monolec® Hydraulic Oil (6110)

Textile Chemical Manufacturing Plant – South Carolina

Hydraulic Systems

- Protected hydraulic pump for 22 years
- Eliminated sludge and grit in hydraulic reservoirs

Customer Profile

A Textile Chemical Manufacturing Plant located in South Carolina converted a large hydraulic system to LE's Monolec® Hydraulic Oil (6110) after experiencing problems of pump life and sludging in the hydraulic tank. They have been an LE customer for 30 years.

Application

Large 500 gallon hydraulic system with four 100 HP Vickers PVH131 pumps.

Challenge

The Textile Chemical Manufacturing Plant was averaging a pump replacement once a year.

LE Solution

Monolec Hydraulic Oil (6110) was recommended by Helmut von Schweinitz, LE lubrication consultant. Monolec 6110 contains Monolec®, LE's exclusive wear-reducing additive and meets all of the needs of modern hydraulic equipment. Helmut aided the Textile Chemical Plant with the use of filtration and oil analysis to determine when the Monolec 6110 should be changed. Helmut explained that they could extend the oil drain intervals, reduce oil leakage, and extend pump life, while keeping the hydraulic system clean and free of sludge and gritty material they had previously experienced with the commercial grade hydraulic oil. The original goal was to extend the drain intervals to three years in 1985. This was continued until 2002.

Results

In 2002, the Textile Chemical Plant decided to drain the oil and have the 500 gallon reservoir cleaned due to some high particle counts in the oil analysis. They refilled it with new Monolec 6110 and the unit ran until 2006. Another tank inspection was conducted. The oil was transferred to a storage tank to be filtered and with the use of Helmut's depth filtration chart, while the inspection took place. The tank was found to be in clean condition and the oil was placed back into service. Today the oil has six years of service. The only pump replacement in that service time was due to a pump seal leak in 2007. The pump was replaced because parts were not available, due to the age of the pump.

Other Products Used

- Almagard® Vari-Purpose Lubricant (3751)
- Monolec® R & O Compressor / Turbine Oil (6406)
- Multilec® Industrial Oil (6803)
- H1 Quinplex® Penetrating Oil & Lubricant (4059)

Thank you to the personnel at this textile chemical manufacturing plant, and to Helmut von Schweinitz, LE lubrication consultant (pictured), for providing the information used in this report.





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Based on actual user experience. Individual results may vary. Not intended to supersede manufacturer specifications.

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