



Monolec® Turbine Oil (6463)

Montana Hydro-Electric Operation Turbines

Customer Profile

This Montana hydro-electric operation controls more than 11,000 megawatts of generating capacity in the United States, sells energy in key U.S. markets, and delivers electricity to about four million customers.

Application

Hydro-electric Francis fixed blade runner turbines and L&S governors.

Challenge

Their previous lubrication system was built with 350 gallon tanks for the turbines and governors and had a 4,000 gallon reservoir. This was a lot more oil than the company wanted.

A new lubrication system was designed and installed by Jim Pezoldt, LE lubrication consultant, and AMS Filtration. The new lube system had a maximum capacity of 150 gallons, reducing the amount of oil on-site and reducing their environmental impact.

Knowing that the oil could see temperatures as high as 200°F (93°C) with the new lube system, the power generator supervisor and project manager wanted to use a superior turbine oil.

LE Solution

Jim Pezoldt recommended Monolec® Turbine Oil (6463), which is designed specifically to combat the effects of high temperatures (oxidation), water, contaminants and heavy loads which all accelerate wear. Monolec 6463 provides longer equipment and oil life.

Results

Management at the power generator decided to use Monolec 6463 based on performance specifications. Before the oil change-out, the used competitive oil was found to be beyond any useable criteria.



Ryan Dam, Missouri River



1 of 6 turbines at Ryan Dam

Thank you to Jim Pezoldt, 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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LI70738 07-12

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