



## Monolec® R & O Compressor / Turbine Oil (6404)

*East Jefferson Hospital – Metairie, La.*

*Marley Cooling Tower*

- **Reduced amperage**
- **Consolidated lubricant inventory**

### **Customer Profile**

East Jefferson Hospital provides general hospital services for a large geographic area. They have been an LE customer since 1986.

### **Application**

The East Jefferson Hospital uses a 1,000 ton capacity Marley cooling tower, model 375-102.

### **Challenge**

While the East Jefferson Hospital was not experiencing any problem areas with their commercial grade lubricant, they were interested in saving on electrical energy cost and consolidating product inventory. While using a commercial grade lubricant the 3-phase electric motor amperage readings were as follows: 37 amps, 36 amps and 36 amps.

### **LE Solution**

LE's Monolec® R & O Compressor / Turbine Oil (6404) was recommended for the gearbox on the Marley cooling tower. Made from the highest quality paraffin base stocks, Monolec 6404 offers excellent oxidation resistance and is extremely long lasting in service. It will not emulsify with water and prevents corrosive wear. It contains Monolec, LE's exclusive wear-reducing additive.

### **Results**

Michael Burke, engineering supervisor, personally managed the changeover and took amp readings to verify the

energy reduction after converting to Monolec 6404. The readings were as follows: 34 amps, 33 amps and 34 amps. Michael Burke was so impressed with the results that he ordered additional product to change out all cooling tower gearboxes to Monolec 6404. There are five other Marley cooling towers at East Jefferson Hospital.

In addition to energy reduction, Monolec 6404 provided a product consolidation opportunity as it took the place of two types of commercial grade gear lubricants that were being used. Monolec 6404 ISO 100 (SAE 30) can also be used in all of their reciprocating air compressors and vacuum pumps in the hospital. This has simplified inventory and stocking for East Jefferson Hospital by replacing two gear lubricants, one air compressor oil and one vacuum pump oil.

Fourteen months after installing Monolec 6404, one of the gearboxes was taken to the maintenance shop for a minor repair. While in the shop it was also checked for wear. Michael Burke was amazed to find that all of the tolerances were still within the manufacturer's original specifications, even though this gearbox had been in service for 6,000 to 7,000 hours. He is very pleased with the exceptional results that East Jefferson Hospital has received using Monolec 6404.

*Thank you to Glen Williams, assistant director of building services, Michael Burke, engineering supervisor, and to Joshua Trahan, LE lubrication consultant (pictured), for providing the information used in this report.*





Monolec® is a registered trademark of Lubrication Engineers, Inc.

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

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