

6403 MONOLEC® R&O Compressor/Turbine Oil

Trigen Energy, Oklahoma City, OK

Murray Steam Turbines • SIC 4961 Steam and Air Conditioning Supply



- **Increased bearing life**
- **Extended drain intervals from 1 year to 3+ years**
- **Sludge has been reduced at least 85%**
- **75% less waste oil for disposal**

CUSTOMER PROFILE

Trigen Energy produces heat and cold air for customers in downtown Oklahoma City. They have been in business since 1962 and an LE customer since January 2002.

APPLICATION

Trigen Energy uses Murray steam turbines to drive refrigeration compressors.

AREA OF INTEREST

The pumps generate large amounts of water into the lubricating oil. The previous brand turbine oil would leave excessive amounts of sludge in the sump which required draining it and manually cleaning the sump every year.

LE SOLUTION

LE Representative Richard Weber recommended LE's 6403 MONOLEC® R&O

Compressor/Turbine Oil. LE's 6403 is a rust and oxidation inhibited oil for reciprocating and rotary compressors, steam turbo generators, smaller industrial turbines, gears, bearings, and circulating systems. It separates readily from water and prevents corrosive wear. It is extremely long lasting and is nonfoaming in service.

CUSTOMER COST SAVINGS

It is normal maintenance procedure to check bearing and thrust wear on the turbine bearings every year. After three years using LE's 6403 MONOLEC R&O Compressor/Turbine Oil there was no measurable wear on the bearings or thrust. With the previous oil, the bearings needed to be replaced every three years on the average. With LE's 6403 there is not even a swirl mark on the bearings.

LE's 6403 is now in its fourth year of service. The previous commercial grade oil had to be changed every year.

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Sludge in the sump has been reduced at least 85%.

Waste oil used to be a problem. After being pumped into the used oil container it would contain so much water that the oil recovery company would not pick it up.

Since the conversion to LE's 6403 this problem has been alleviated. In addition

they now purchase 75% less oil and have 75% less to dispose of.

Lead Mechanic Jeff Tate stated, **"I did not know there could be that much difference in oils."**

OTHER PRODUCTS USED

6802 MULTILEC[®] Industrial Oil is used in their Gardner Denver rotary screw air compressors.

We would like to thank Lead Mechanic Jeff Tate and LE Representative Richard Weber for providing the information to prepare this report.



Richard Weber