

4090 QUINPLEX® WHITE GEAR LUBRICANT

CITY OF BURLINGTON-MACKINTOSH WTP, Burlington, North Carolina

Lightnin Mixers • SIC 4941 Water Supply



CUSTOMER PROFILE

The City of Burlington – Mackintosh WTP is the main water treatment plant for the City of Burlington. They also supply water to several other local municipalities in the area. The plant treats 12-13 million gallons per day most of the year, but will increase production to 18 million gallons per day during times of high demand (peak capacity). This plant was built in 1980 and they have been an LE customer since 2002. Joseph Rierson is one of the Lead Operators and primarily responsible for their lubrication program.

drain intervals were at two years. Plant operators were concerned about safety of the water supply since mixers operated above the water with the possibility of oil entering the water from leaks or spills. They wanted a safer oil

APPLICATION

Lightnin mixers are used to agitate six flocculator tanks and two flash mixers. These units run continuously, 24 hours a day seven days a week.



AREA OF INTEREST

Using a commercial grade lubricant, oil

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as well as one that would give superior protection and long service intervals.

LE SOLUTION

The local LE Lubrication Consultant recommended LE 4090 QUINPLEX® White Gear Lubricant. LE 4090 is H1 rated for incidental food contact. It also provides excellent load carrying, wear-reducing and non-foaming properties.

CUSTOMER COST SAVINGS

In 2002, two mixers were changed to LE 4090. The next year two more and so on until all eight were converted.

Exact cost savings are difficult to determine. In Spring 2007, oil analysis was performed on all of the mixers. All samples were still in good condition and NO CHANGE was

recommended. The oldest oil has been in service for five years and is still good for continued service. Oil analysis will be performed again in one year. At that time the longest running oil will be in service for six years. That is three times longer than the previous lubricant which was not food grade. Most importantly, the LE 4090 QUINPLEX® White Gear Lubricant has superior performance while also meeting the safety concerns of the plant operators with its H1 food grade approval. Another benefit and area of cost savings is no breakdowns, and no downtime has occurred while using LE 4090.

OTHER PRODUCTS USED

With the success of LE 4090 QUINPLEX White Gear Lubricant, plant operators are going to convert other equipment to LE products.



We would like to thank Lead Operator, Joseph Rierson and LE Lubrication Consultant Jeffrey Boyles for the information provided to prepare this report.



Jeffrey Boyles