

704 MONOLEC® GEAR LUBRICANT

NEBRASKA CITY UTILITIES WWTP, Nebraska City, NE

Gearboxes • SIC 4952 Sewerage Systems

Gearboxes on the clarifiers are drained once every three years!

CUSTOMER PROFILE

The Nebraska City WWTP processes a minimum of over 1 million gallons per day. They have been an LE customer since 1980.

APPLICATION

Nebraska City uses three Smith Loveless (1980) 50-ft. clarifiers and two Rex (1963) 50-ft. clarifiers in the water treatment process.

AREA OF INTEREST

While using a commercial grade gear lubricant, it was necessary to change it out every six months. This took two full days of labor.

LE SOLUTION

It was recommended that LE's 704 MONOLEC Gear Lubricant be used in this application. LE's 704 is a versatile, multi-viscosity EP gear oil which exceeds the demanding requirements of heavily loaded industrial gearboxes and it contains MONOLEC, LE's exclusive wear-reducing additive

CUSTOMER COST SAVINGS

After converting to LE's 704 in May of 1986, the gearboxes on the clarifiers are drained once every three years. **This is saving Nebraska City 10 full days of labor and five fills of oil each three-year period.**

In 1986, LE's 704 was installed in the Browning



Superintendent Robert Gray

drive unit for the Lyco rotating biodiscs (RBCs). It is shut down once a month and allowed to sit. The moisture is then drained off through a spigot on the bottom and the unit restarted. In 1994 the oil was analyzed by an outside company and found to be in good condition. In the first quarter of 1997 it was replaced with fresh 704 MONOLEC Gear Lubricant and the old oil is being used to lubricate the chain drives on the rotating biodiscs. **After over 10 years in service, LE's 704 still has its original color.**

The gearboxes on the Imco dewatering equipment were also filled with LE's 704 in 1986 and are scheduled to be drained in 1997. Again, LE's 704 has been in service for over 10 years.

All gearboxes use spigots to drain the moisture.

**LUBRICATION
ENGINEERS, Inc.**

Leaders in Lubricants



OTHER PRODUCTS USED

Nebraska City also uses LE's 3752 ALMAGARD Vari-Purpose Lubricant in the Dodge bearing in the rotating biodiscs. Previously, while using a commercial grade grease, they lost two bearings in a three-year period. They switched to LE's 3752 in 1980 and haven't lost a bearing since.



Mike Berger

We want to thank Robert Gray, Superintendent and the LE Representative Mike Berger for providing the information to prepare this report.