

# Customer Testimonial



## Multilec® Industrial Oil (6803)

### Town of Wadesboro WTP – North Carolina

### Ingersoll Rand Rotary Compressors

- Decreased operating temperatures
- Eliminated overheating problems
- Extended oil drain intervals

#### Customer Profile

The Town of Wadesboro is located about 50 miles east of Charlotte near the North Carolina/South Carolina state line. Hugh James is the public works director as well as overseeing the water treatment plant.

#### Application

Two Ingersoll Rand rotary compressors operate as blowers at the City lake reservoir. They are both model number SSR-XF30.

#### Challenge

These two blowers operate during the summer oxygenating the water at the reservoir. Hugh said most years the blowers would trip off one or more times during the season due to overheating. They were using the OEM recommended oil (Ingersoll Rand) in the blowers. Hugh was also interested in extending drain intervals. They had been changing the oil in the blowers every year.

#### LE Solution

Jeff Boyles, LE lubrication consultant, listened to Hugh explain his situation. After looking at the application, Jeff recommended Multilec® Industrial Oil (6803). Multilec 6803 is a multi-functional, heavy duty R & O inhibited and anti-wear oil for air compressors, bearings, pumps, gearboxes and other applications. It also contains Monolec®, one of Lubrication Engineers' exclusive friction and wear reducing additives. Monolec has been shown to reduce wear more than 24%. When wear and friction are reduced, heat is almost always reduced also which was needed in this application.

Jeff also recommended LEAP™ (Lubrication Engineers Analysis Program) to monitor the oil condition and to safely extend drain intervals longer than the current one year if possible.



One of the Ingersoll Rand units (above) and its information plate (below).





Hugh had already used another LE product with good success, Almagard® Vari-Purpose Lubricant (3752), a No. 2 grease, so he knew LE products perform well.

### Results

Multilec 6803 was installed in the Ingersoll Rand units in the Spring of 2007 before the season started. The units ran all summer until turned off in the fall. They did not trip off at any time during the season due to overheating, a first for them. What also makes this even more remarkable is the fact that the 2007 summer in the Carolinas was the hottest on record. All recorded records were broken for most days in the 90s and 100s. Multilec 6803 with Monolec® lowered the operating temperature so that overheating was not a problem.

At the end of the 2008 season, the oil was sampled and was still good to run at least another year. However, Hugh decided to change the oil since the sample results indicated that some of the previous oil was present and not flushed out as well as he would like. A small amount of additives were present that are not normally in Multilec 6803. He figures that during this next cycle he should be able to get three years service or three times longer than before.



*View of the lake near the building housing the blowers.*

Cost savings are difficult to quantify in this situation but this we do know, the oil has been in service for two years. This is twice the service time of the previous OEM recommended oil, plus there has been no downtime for overheating. Also, by reducing the operating temperature, friction has been reduced so wear on the oil lubricated parts will not be as great as before, extending their useful life.

### Other Products Used

- BTU<sup>+</sup> Power Supplement & Cleaner (2420) – to treat diesel fuel
- Almagard® Vari-Purpose Lubricant (3752) – in all the front end loader, backhoes and other heavy duty applications
- Quinplex® White Oil (4030) – in pumps at water treatment plant
- Quinplex® White Gear Lubricant (4140) – in pumps at water treatment plant
- Pyroshield® Syn Open Gear Grease (5100) (aerosol can) – on the slides on the rear of the garbage trucks
- Multilec® Industrial Oil (6801) – in the vertical pumps at the water plant
- Monolec Ultra® Engine Oil (8800) – in garbage trucks

*Thank you to Hugh James,  
public works director, and to Jeff  
Boyles, LE lubrication consultant  
(pictured), for providing the  
information used in this report.*



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