



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

City of Payette WWTP – Idaho

Various Equipment

- Extended oil drain intervals by more than 12 times

Customer Profile

The City of Payette Wastewater Treatment Plant is located in Payette, Idaho. Their system is designed to handle an average of 2.7 million gallons a day, with peak summer loads of 3.7 million gallons per day. This wastewater treatment facility is a 100 percent LE user.

Application

The following equipment is being used by the City of Payette WWTP: Schwitzer Duroflow blower series 456, gear reducers in the Lakeside screw pumps, Reeves X-V Mono Pump in a Somat Unit and Lakeside Magnum rotors model 741H15.

Challenge

They were interested in extending drain intervals to reduce maintenance time. They first converted a Milwaukee Model 20-101 air compressor which was running hot. Because they were impressed with the results, they gradually converted all the remaining equipment to LE products.

LE Solution

Monolec® R & O Compressor / Turbine Oil (6404) was recommended by the local LE Lubrication Consultant.

The drain interval for the Lakeside Magnum rotors model 741H15 with the previous conventional oil was six months. After converting to Monolec 6404 and using LEAPSM (Lubrication Engineers' Analysis Program), testing was done after 36,562 hours on the oil showed there was minimal wear, and the oil was in excellent condition for continued service. Now that the oil has been in use for six years, they have decided to change it.

The Schwitzer Duroflow blower Series 456 unit aerates activated sludge. The gear reducers in the Lakeside screw pumps are used to lift the influent to the plant. These pumps operate continuously at a maximum output of 3,650 gallons per minute. The Reeves X-V Mono pump is in the Somat Unit, which is a dewatering device. The Somat Unit deals with the final step in the process of dewatering the wastewater. Prior to installing this unit, 18 truckloads were required to remove the solids which were mixed with water. It now takes only one truckload using the Somat Unit.

Results

Monolec 6404 has made the City of Payette's equipment run cooler and the drain intervals have been extended more than 12 times, compared to the six month drain intervals experienced with the previous lubricants. They have now converted to using 100 percent LE lubricants.

Other Products Used

The City of Payette also uses Almaplex® Industrial Lubricant (1275) for all lubrication points requiring a grease. This lubricant has excellent water resistance capabilities and contains Almasol®, LE's exclusive wear-reducing additive. With the previous commercial grease the bearings ran hot and the lubricant didn't stay in place. They also felt that they were using an excessive amount of lubricant for these applications. Compared to the previous lubricant, Almaplex 1275 lasts three times longer and the equipment runs cooler. They are very pleased with these results, as lubricating all grease points now requires a lot less maintenance time.

