



# Hoogheemraadschap Hollands Noorderkwartier

TESTIMONIAL TECHNICAL SERVICE MANAGER SDI - TINUS HOPMAN REGARDING THE OPERATION OF THE DEX PREMIUM LUBRICANT INDUSTRIAL HYDRAULIC (32T)

## *ABEL Industrial Pump 750 liter.*

In December 2019, I was alerted by our oil analyst Peter de Caluwé of ORM Advies to the existence of Dex Oil BV that might solve a problem we had with the water secretion capacity of the oils we used in the so-called sludge compactors. After sufficiently verifying that the Dex professionals could also be classified as such, I decided to start testing with the recommended oil. Because it is a much thinner oil than is prescribed, I asked our maintenance consultant Hydrauvison to be sure. It initially opposed a test with this thin oil, but abandoned its objections after a meeting with Dex Oil technicians, which appears to have been the right decision. Because the loading of the pump system changes the composition, we have allowed the comparative test with the second pump installation to take 6 weeks with which the differences in loading are eliminated.

The latest oil analysis showed that the Dex oil was very clean and contained virtually no water (9 ppm), while the oil in the second pump contained 106 ppm of water. It also turned out that the Dex oil was more filterable according to the ISO 4406 count than the other oil. In particular, the relatively larger particles are filtered out of the oil with the Dex Hydraulic 32T (ISO VG 32) due to reduced pressure in the filter. Because larger particles mean more wear, it is expected that less wear will occur. The extent to which this will be the case can first be determined over a longer period of time. From the single data, that a much thinner oil is used, it can be derived that less energy is used. Unfortunately, the meters that have to record this have not worked properly and the extent to which energy consumption has decreased will therefore only be possible in the near future. I will report on this separately.

Based on the results achieved, we decided to equip the second pump installation with the Dex Hydraulic 32T. On the basis of these results and previously published results for Dex oils, the manager of the water treatment plant, my colleague Peter van der Stoop, decided to carry out a test with the Dex DP2 ISO VG 100 with the so-called aerators. In due course, the publication of an interview with him may also be expected regarding the results of that test.

Based on the results achieved here, I can advise all my colleagues in the Netherlands to start the conversation with Dex Oil BV about solutions to oil related problems and energy savings.

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