



**Lubrication
Systems
Company**

Product Quality and Specifications Committee (PQSC)

TECH Bulletin 2007-M-02

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Subject: Use of Shell DE100 Oils in LubriMist Oil Mist Systems

John Rehmeier, LSC Servicetech in California, has reported an incident which needs to be shared where Shell Corena Oils have been used in LubriMist Systems. The text of his message is below. For the sake of privacy, the customer name and personal names of individuals have been [omitted].

[Customer] has been using a Corena DE 100 for the past 5-6 years, dispensed with nitrogen charged oil banks, with great success. The oil mist reservoirs have been very clean upon every reservoir inspection, February 2007 being the last. This last round of inspections, May 2007, did not require opening and inspecting reservoirs but they had an oil level problem at their [Process Unit]. This is an EXP generator. I proceeded to check filters and strainer screens and found no abnormalities. Upon opening the reservoir for further investigation I found it to be heavily contaminated with a kernelled wax that seem to be floating on top of the oil. The suction screen was completely impacted with this substance and also caught up in the oil float assembly.

[Customers] personnel were notified and [the Oil Supplier], was called in. [The Oil Supplier] came out to investigate and take samples. At this time she informed us that Shell Lube Oils had discontinued Corena DE 100 and replaced it with a Corena AP 100. Susan informed us that the DE was a Diester and the AP was a Triester and were compatible oils per Shell Lubricants. This switch in oils began arriving and introduced to the oil mist systems around February-March 2007 without notification of the change. Some Oil Banks were being delivered with the new oil with the old labeling.

Further investigation of the remaining oil mist reservoirs reveled approximately 65% of them were suffering the same scenario. Residual use of the Corena DE 100 is my assumption that more were not found with this contamination. The probable cause discussed is the mix of the two oils being heated in the oil mist reservoir causing this adverse reaction. I recommended that a quick fix oil to use is Torcula DE 68. This oil has been used at the [other Customer] plant for many years without any problems.



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I have taken samples of both oils, Corena DE 100 and AP 100, a possible mix of the two, samples of the contamination found within the reservoir and a couple of oil suction screens for your review.

Until we have data that identifies the source of the wax deposit and a solution to eliminate its formation, **THE USE OF SHELL CORENA AP100 OILS IS NOT RECOMMENDED.** As a preventive measure, this information should be shared with all customers using Shell Corena oils.

Charlie Ehlert
Dir. Quality Control and New Product Development
PQSC Chairman