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Titolo	Influence of concentration and additives on R123/paraffinic material oil boiling heat transfer performance / / Mark A. Kedzierski, D.H. Han
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Altri autori (Persone)	HanD. H
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Sommario/riassunto	This report investigates the effect that oil concentration had on the boiling performance of an R123/paraffinic mineral oil mixture on a roughened, horizontal flat surface. For all compositions (0.5 %, 1 %, and 2 %), the lubricant caused a heat transfer degradation relative to the heat transfer of pure R123 of between 2 % and 70 % for the range of measured heat fluxes. The heat transfer degradation was shown to increase with lubricant mass fraction. The minimum heat transfer degradation for each mixture ranged between 2 % and 12 % and occurred at approximately 20 kW/m2. For a given composition, the heat transfer degradation increased as the heat flux increased from roughly 20 kW/m2 to 90 kW/m2. In addition, the effect of two trial additives on the pool boiling heat transfer of an R123/paraffinic mineral oil mixture was examined in order to test the validity of a theory for choosing oil additives to enhance boiling performance. The verification tests were inconclusive. More research with lubricants and additives with greater differences in surface tensions is required to develop a more rigorous and quantifiable theory for designing additives that improve boiling heat transfer.

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Titolo	Beyond Databases, Architectures and Structures : 11th International Conference, BDAS 2015, Ustro, Poland, May 26-29, 2015, Proceedings / / edited by Stanisaw Kozielski, Dariusz Mrozek, Pawe Kasprowski, Boena Maysiak-Mrozek, Daniel Kostrzewa
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Soggetti	Database management Data mining Computer science Image processing - Digital techniques Computer vision Artificial intelligence Database Management Data Mining and Knowledge Discovery Models of Computation Computer Imaging, Vision, Pattern Recognition and Graphics Artificial Intelligence
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Nota di contenuto	Database architectures and performance -- Data integration, storage and data warehousing -- Ontologies and semantic web -- Artificial intelligence, data mining and knowledge discovery -- Image analysis and multimedia mining -- Spatial data analysis -- Database systems development -- Application of database systems.
Sommario/riassunto	This book constitutes the refereed proceedings of the 11th International Conference entitled Beyond Databases, Architectures and

Structures, BDAS 2015, held in Ustro, Poland, in May 2015. This book consists of 53 carefully revised selected papers that are assigned to 8 thematic groups: database architectures and performance; data integration, storage and data warehousing; ontologies and semantic web; artificial intelligence, data mining and knowledge discovery; image analysis and multimedia mining; spatial data analysis; database systems development; application of database systems.