

Title (en)

OIL REMOVAL FROM A TURBINE OF AN ORGANIC RANKINE CYCLE (ORC) SYSTEM

Title (de)

ÖLBESEITIGUNG VON EINER TURBINE EINES SYSTEMS MIT ORGANIC-RANKINE-KREISLAUF (ORC)

Title (fr)

RETRAIT D'HUILE D'UNE TURBINE D'UN SYSTÈME À CYCLE DE RANKINE ORGANIQUE (ORC)

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2009017471A1] A method and system for removing oil in an organic rankine cycle (ORC) system (10) is used to prevent failures in the ORC system (10), especially during startup. The ORC system (10) includes an evaporator, a turbine (18), a condenser and a pump, and is configured to circulate a refrigerant (22) through the ORC system (10). The oil-removal system is used to remove oil from certain areas of the turbine (18), and includes an eductor line (32) and an eductor system (20). The eductor line (32) is located upstream of the turbine (18) and configured to receive a portion of the refrigerant (22b) exiting the evaporator. The eductor line (32) delivers the refrigerant (22b) to an eductor system (20) configured to remove oil from inside the turbine (18) and deliver the oil to an oil sump (58).

IPC 8 full level

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