

Title (en)

IMPROVEMENT OF ENERGY EFFICIENCY IN HYDRAULIC SYSTEMS

Title (de)

VERBESSERUNG DER ENERGIEEFFIZIENZ IN HYDRAULIKSYSTEMEN

Title (fr)

AMELIORATION DU RENDEMENT ENERGETIQUE DANS LES SYSTEMES HYDRAULIQUES

Publication

**EP 1987118 A1 20081105 (EN)**

Application

**EP 06830061 A 20061121**

Priority

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- US 35719506 A 20060221

Abstract (en)

[origin: US2007197410A1] The present invention describes use of a fluid having a VI of at least 130 to improve the energy efficiency of a hydraulic system. Furthermore, the present invention relates to a hydraulic system comprising a hydraulic fluid having a VI of at least 130, a unit for creating mechanical power, a unit that converts mechanical power into hydraulic energy, and a unit that converts hydraulic energy into mechanical work. Preferentially, engine speed can be reduced to decrease load and stress while delivering the same amount of hydraulic power.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

See references of WO 2007096011A1

Citation (examination)

"Recommended practice - Hydraulic fluid power - Fluids - Viscosity selection criteria for hydraulic motors and pumps", 2002, Retrieved from the Internet <URL:[<http://www.nfpa.com/standardization/findstandard-details.aspx?sid=966&pnum=NFPA/T2.13.13-2002%20\(R2015\)>](http://www.nfpa.com/standardization/findstandard-details.aspx?sid=966&pnum=NFPA/T2.13.13-2002%20(R2015))>

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