

Title (en)

NO-LOAD OPERATION SYSTEM OF TADEM PUMP

Title (de)

LEERLAUFBETRIEBSSYSTEM FÜR TANDEMPUMPE

Title (fr)

SYSTEME DE FONCTIONNMENT A VIDE D'UNE POMPE TADEM

Publication

EP 1806504 A1 20070711 (EN)

Application

EP 05770828 A 20050803

Priority

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Abstract (en)

When the pressure in the main oil supply channel 9 is lower than the no-load operation start pressure, the pressurized oil within the secondary oil supply channel 10 passes through the internal flow channel 21 of the spool 20 and flows into the main oil supply channel 9. At this time oil output from both the main and secondary oil pumps 7, 8 is merged and supplied to the oil supply destination OB. When the pressure within the main oil supply channel 9 rises and reaches the no-load operation start pressure, the spool 20 moves in opposite direction to the direction of the force of the spring 30, the pressurized oil within the secondary oil supply channel 10 is drained, the poppet 40 contacts the spool 20 and blocks the internal flow channel 21 of the spool 20. At this time, the secondary oil pump 8 enters the no-load operation state, and oil output from the main oil pump 7 only is transmitted to the oil supply destination OB.

IPC 8 full level

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CPC (source: EP US)

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