

Title (en)

METHOD FOR CONTROLLING OIL FLOW RATE IN A TWO-STROKE ENGINE WITH SEPARATE LUBRICATION AND RELATED ENGINE

Title (de)

DURCHFLUSSSTEUERUNGSVERFAHREN DER SCHMIERÖL EINER ZWEITAKT BRENNKRAFTMASCHINE MIT GETRENNTER SCHMIERUNG

Title (fr)

PROCEDE DE CONTROLE DU DEBIT D'HUILE DANS UN MOTEUR DEUX TEMPS A GRAISSAGE SEPRE ET UN MOTEUR ASSOCIE

Publication

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Application

EP 98955711 A 19981120

Priority

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Abstract (en)

[origin: FR2771448A1] The oil reservoir (4) is connected through a pump (5) and solenoid-controlled valve (3) to the engine (1). A non-return valve (11) in the delivery pipe (2) prevents oil bleeding into the engine when idle. A by-pass pipe (10), also with non-return valve (6), returns some of the pumped oil to the reservoir side of the pump from the control valve. The delivery and by-pass pipe dimensions are chosen to ensure the minimum delivery needed by the engine when the valve opens the by-pass, and the maximum when it closes it. Opt., the valve is arranged to vary the by-pass flow by intermediate displacement, or oscillatory operation at variable frequency. The valve is controlled by an electronic unit (7) with input from a thermal sensor (8) on the engine, e.g. included in the sparking-plug gasket (12), on the engine, e.g. included in the sparking-plug gasket (12), in air-cooled engines, or immersed in the coolant of liquid-cooled engines. Opt., supplementary control is derived from throttle action (applied (9) direct to the pump this provides an alternative control should the electronic system fail).

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