

## Engine Oil Flush

**Bardahl Oil Flush** is a highly concentrated mixture of special solvents, oils and the famous polar attraction formula. It cleans the engine of existing precipitations and prevents the formation of new precipitations.

**Bardahl Olie Flush** loosens stuck valves, valves and piston rings while driving. It cleans the motor internally and therefore restores power.

### The problem

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Varnish, gum, coal and sludge are by-products from the combustion process. These contaminants are normally kept in suspension by the crankcase oil and drained when oil change. However, under certain circumstances, such as occasional or delayed oil spills, these precipitations can become too much and cause blockages and accumulations. Short journeys or irregular use of an engine result in increased sludge and gum formation.

Driving with a high engine temperature, such as driving a caravan, driving in the mountains and a lot of fife and city traffic cause increased varnish and coal formation. These driving conditions cause more contaminants than the engine oil can handle. Once this point is reached, precipitations form in the piston spring grooves, on the valves and valve guides, pistons and piston rings, between tumbler and tumbler shaft, they reduce the clearance and cause disruption of the adjustment. This means irregular running of the engine, the engine is upset.

When varnish comes between the tumbler and tumbler shaft, it causes a clamping, which affects the valve spring tension and possibly builds up a residue on the valve stem. Contaminated piston spring grooves cause stuck springs. As a result, piston spring wear becomes very large, compression decreases, the engine loses power and oil consumption increases.

Especially engines with hydraulic valves are very sensitive to this because of their close tolerance and that means that stuck valves immediately mean high wear of the camshaft. Stuck valve thrusters can be recognized by a ticking sound just after a cold start.

### The solution

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The mixture of special solvents in **Bardahl Oil Flush** ensures that existing precipitations are dissolved, that gum disappears from valves, that stuck piston rings come loose and that sludge dissolves in the piston spring grooves.

**Bardahl Oil Flush** ensures that these precipitations are dispersed and remain in suspension until the oil is drained during change. Bardahl's special high-pressure components also provide a protective oil film on the metal surfaces to prevent precipitation from re-attaching.

By removing these precipitations and loosening stuck parts,

**Bardahl Olie Flush** ensures that the engine runs smoother and more efficiently again and that the power loss is restored. A better running engine also means a more economical running engine.

## Manual

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Pour a can (300 ml.) into the crankcase oil (max. ) 4,5 liter(stationary) operating hot engine. **Caution:Do** not allow oil levels to **rise above the maximumlevel**. Turn the engine on at idle speed for about 30 minutes (bring to operating temperature). Then add Motorflush min. Run at idle speed for 15min. Or the other option to drive up to 50 kilometers.

Important: **Choose one of the two options, not both !**

Then change oil and renew oil filter.

This method ensures that valves that linger and compression springs come loose again. For maximum lubrication, add a can of **Oil Booster + Turbo Protect** to the new engine oil.

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