

Water pump leaks, shows signs of calcium/rust





Cause

Water with a high mineral content is added to the system, over a period of time

Effect

- ► Formation of deposits
- ► Restrictions to the flow of the coolant
- ► Damage of the seal of the pump

Recommendation

- ► Clean the cooling system before replacing a new waterpump
- ► Check system pressure, use correct coolant
- mixture ► Never use tap water

Water pump leaks after topping up with coolant





Cause

- ► The ceramic seal is damaged by adding cold coolant to a hot system
- ► Engine runs with insufficient volume of coolant in the system

Effect

Sudden change in temperature causes the seal to crack

Recommendation

- ► Always allow the engine and cooling system to cool before adding fresh or cold coolant
- ► Never start the engine without coolant

Water pump leaks, shows cavitation





Cause

Housing damage due to inadequate coolant, the incorrect mixture or usage of tap water to fill the system

Effect

- ► Overheating or boiling of the coolant
- ► Reaction with the body of the pump resulting in cavitation

Recommendation

- ► Clean the cooling system before replacing a new water pump
- ► Check system pressure, use correct coolant mixture
- ► Never use tap water

Water pump leaks shortly after installation





Cause

Usage of excess sealant during the water pump installation

Effect

- ► Contamination of the seal
- ► Premature failure

Recommendation

Usage of the correct amount of sealant when installing

Water pump doesn't turn freely





Cause

- ► Excessive drive belt tension
- ► Overload/failure due to vibration or imbalance
- ► Misalignment of the spindle and impeller within the body

Effect

Broken bearing

Recommendation

- ► Ensure correct belt tension
- ► Inspect fan
- ► Check condition and ensure correct alignment of all elements: pulleys, idler, belt, etc.







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