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**Question:**

List the additives of lubricant used in S.I engine and state their advantages.

**Answer:**

Additives (any six ) (1) Detergents - To keep engine parts, such as piston and piston rings, clean & free from deposits. (2) Dispersants - To suspend & disperse material that could form varnishes, sludge etc that clog the engine. (3) Anti - wear - To give added strength & prevent wear of heavily loaded surfaces such as crank shaft rods & main bearings. (4) Corrosion inhibitors - To fight the rust wear caused by acids moisture. Protect vital steel & iron parts from rust & corrosion. (5) Foam inhibitors - control bubble growth, break them up quickly to prevent frothing & allow the oil pump to circulate oil evenly. (6) Viscosity index improver - added to adjust the viscosity of oil. (7) Pour point depressant - improves an oil ability to flow at very low temperature

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