

LOW EMISSION DIESEL LUBRICANT WITH
IMPROVED CORROSION PROTECTION

ABSTRACT OF THE DISCLOSURE

The present invention provides engine lubricants for low emission diesel engines featuring low levels of ash, sulfur and phosphorus. Specifically, this invention provides a low emission diesel lubricant comprising from about 0 wt. % to about 1.2 wt. % ash; from about 0.1 wt. % to about 0.5 wt. % sulfur; and from about 0.02 wt. % to about 0.1 wt. % phosphorus. Said lubricant may also comprise a novel unsulfurized, carboxylate-containing additive for lubricating oils, comprising a mixture of alkaline earth metal salts (hydrocarbyl phenate/hydrocarbyl salicylate) and a reduced amount of unreacted hydrocarbyl phenols, in which said hydrocarbyl salicylate is primarily single-aromatic-ring hydrocarbyl salicylate. The invention also provides a method for producing said additive and said LEDL.