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Case EI-6777-A

GEAR OIL COMPOSITIONSAbstract of the Disclosure

A "cold-clash" gear problem associated with vehicular manual transmissions exposed to the cold is overcome by use of a special all-synthetic gear oil composition. The composition is composed of base oil and specified additive components. The base oil is
5 a blend of dialkyl ester of an aliphatic dicarboxylic acid having a maximum pour point of about -55°C and a maximum kinematic viscosity at 100°C of about 4 cSt, and three hydrogenated poly- α -olefin oligomers having kinematic viscosities at 100°C of about 40, about 4-8 cSt and about 2 cSt in specified proportions. The
10 additive components comprise an organic sulfur-containing antiwear and/or extreme pressure agent, an organic phosphorus-containing antiwear and/or extreme pressure agent, a copper corrosion inhibitor, a rust inhibitor, a foam inhibitor, and an ashless dispersant. The gear oil has a boron content of about
15 0.0025 to about 0.07 wt%.



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