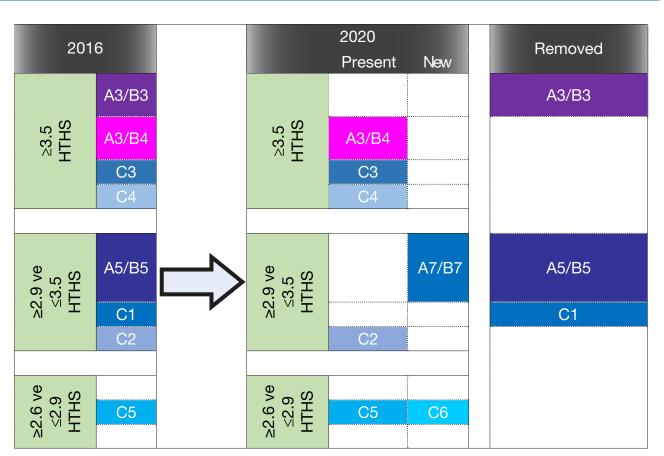
Technical Bulletin

Acea 2020 – What's New?

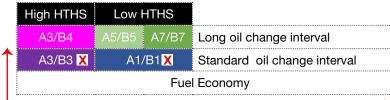
Oxidation in Oils

ACEA (European Automotive Manufacturers' Association), is updated every 2 years to ensure that engine oils continue to meet the increasing requirements of engine equipment and emission systems. The latest updated specifications shall be published in the last quarter of 2020, and the foreseen changes are as follows.

Passenger Car and Light Commercial Vehicle Specifications

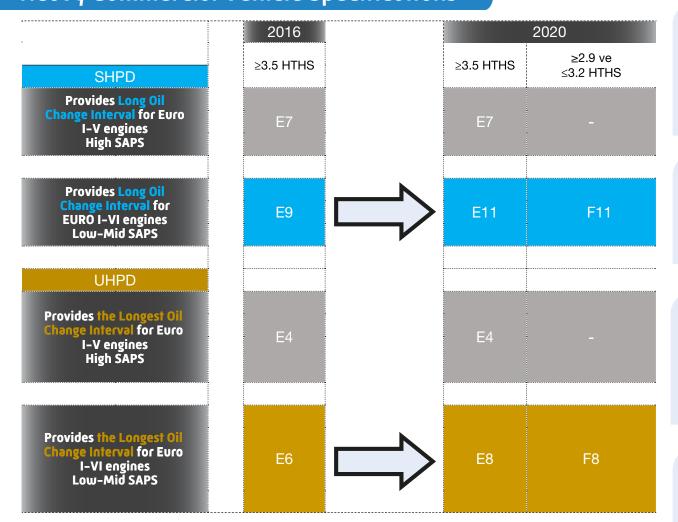


NEW ACEA A7/B7; for modern gasoline and diesel engines not having GPF* or DPF; M217EVO+Toyota TCD+Seq IVB+Seq IX+Seq X tests in addition to ACEA A5/B5 ACEA C6; for modern turbocharged GDI* and diesel engines; Toyota TCD+Seq IX+Seq X tests in addition to ACEA C5



	≥3.5 HTHS	≥2.9 ve ≤3.5 HTHS	≥2.6 ve ≤2.9 HTHS	
\uparrow	C4	C1 X		Low SAPS
	C3	C2	C5 / C6	Mid SAPS
	Fuel Economy			

Heavy Commercial Vehicle Specifications



ACEA E11 It shall replace ACEA E9 class SHPD* oils. Volvo T-13 Oxidation and Caterpillar C13 Oil Aeration tests have been added. Thus, it provides more endurance to oxidation, viscosity increase and piston deposits for the latest generation engine equipment.

ACEA F11

In addition to ACEA E11 specification, Low Soot Wear Test has been added. HTHS value is in the range of $3.2 \ge ... \ge 2.9$. It provides more fuel economy than E11 specification.

ACEA E8

NEW

NEW

NEW

It shall replace ACEA E6 class UHPD* oils. Volvo T-13 Oxidation and Caterpillar C13 Oil Aeration tests have been added. Thus, it provides more endurance to oxidation, viscosity increase and piston deposits for the latest generation engine equipment

ACEA F8

NEW

In addition to ACEA E61 specification, Low Soot Wear Test has been added. HTHS value is in the range of $3.2 \ge ... \ge 2.9$. It provides more fuel economy than E8 specification.

F series oil is an ACEA class developed for fuel economy for heavy commercial vehicles thanks to their low viscosity and low HTHS value.

*GPF: Gasoline Particulate Filter, GDI: Gasoline Direct Injection, SHPD: Super High Performance Diesel, UHPD: Ultra High Performance Diesel

Added Engine Tests:

M217EVO: Engine oil sludge test Toyota TCD: Diesel turbocharger deposit test Seq X tests: Chain elongation test

Seq IVB: Valve train wear test in gasoline engines Seq IX: Low speed pre-ignition (LSPI) test

