

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

2016	2020		Removed								
	Present	New									
<table border="1"> <tr><td>≥3.5 HTHS</td><td>A3/B3</td></tr> <tr><td></td><td>A3/B4</td></tr> <tr><td></td><td>C3</td></tr> <tr><td></td><td>C4</td></tr> </table>	≥3.5 HTHS	A3/B3		A3/B4		C3		C4	≥3.5 HTHS	A3/B4	A3/B3
≥3.5 HTHS	A3/B3										
	A3/B4										
	C3										
	C4										
<table border="1"> <tr><td>≥2.9 ve ≤3.5 HTHS</td><td>A5/B5</td></tr> <tr><td></td><td>C1</td></tr> <tr><td></td><td>C2</td></tr> </table>	≥2.9 ve ≤3.5 HTHS	A5/B5		C1		C2	≥2.9 ve ≤3.5 HTHS	A7/B7	A5/B5		
≥2.9 ve ≤3.5 HTHS	A5/B5										
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	C2										
<table border="1"> <tr><td>≥2.6 ve ≤2.9 HTHS</td><td>C5</td></tr> </table>	≥2.6 ve ≤2.9 HTHS	C5	≥2.6 ve ≤2.9 HTHS	C5	C6						
≥2.6 ve ≤2.9 HTHS	C5										

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

High HTHS	Low HTHS	
A3/B4	A5/B5 A7/B7	Long oil change interval
A3/B3 X	A1/B1 X	Standard oil change interval
Fuel Economy		

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

Heavy Commercial Vehicle Specifications

	2016	2020	
SHPD Provides Long Oil Change Interval for Euro I-V engines High SAPS	≥3.5 HTHS	≥3.5 HTHS	≥2.9 ve ≤3.2 HTHS
	E7	E7	-
	E9	E11	F11
UHPD Provides the Longest Oil Change Interval for Euro I-V engines High SAPS	E4	E4	-
	E6	E8	F8

NEW
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.

NEW
ACEA F11
 In addition to ACEA E11 specification, Low Soot Wear Test has been added. HTHS value is in the range of 3.2 ≥ ... ≥ 2.9. It provides more fuel economy than E11 specification.

NEW
ACEA E8
 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

NEW
ACEA F8
 In addition to ACEA E61 specification, Low Soot Wear Test has been added. HTHS value is in the range of 3.2 ≥ ... ≥ 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