



Specification of Engine Oil

VISCOSITY GRADES FOR ENGINE OILS

SAE Viscosity Grades	Low Temperature	Low Temperature	Low-Shear-Rate	Low-Shear-Rate	High-Shear-Rate
	(OC) Cranking ViscosityJ, mPa.s Max	(OC) Pumping Viscosity, mPa.s Max With No Yield Stress ⁴	Kinematic Viscosity ⁵ (mm.tis) at 100°CMin.	Kinematic Viscosity ⁵ (mm:us)at 100°CMin.	Viscosity c ⁶ 6 (m.Pas) at 150°CMin.
OW	6200 at-35	60 000 at-40	3.8	--	--
SW	6600 at-30	60 000 at-35	3.8	--	--
IOW	7000 at-25	60 000 at-30	4.1	--	--
ISW	7000 at-20	60 000 at-25	5.6	--	--
20W	9500 at-15	60 000 at-20	5.6	--	--
25W	13000 at-10	60 000 at-15	9.3	--	--
8	--	--	4.0	<6.1	1.7
12	--	--	5.0	<7.1	2.0
16	--	--	6.1	<8.2	2.3
20	--	--	6.9	<9.3	2.6
30	--	--	9.3	<12.5	2.9
40			12.5	<16.3	3.5(OW-40, 5W-40 and IOW-40 grades)
40			12.5	<16.3	3.7 (15W40, 20W-40, 25W-40,40 grades)
50			16.3	<21.9	3.7
60			21.9	<26.1	3.7