

SAE VISCOSITY CLASSIFICATION FOR CRANKCASE OILS

SAE J-300 (DECEMBER 95)^A

SAE Viscosity Grade	Low Temperature (°C) Cranking Viscosity ⁽¹⁾ , P Max.	Low Temperature (°C) Pumping Viscosity ⁽²⁾ , cP Max. with No Yield Stress	Kinematic Viscosity ⁽³⁾ , (cSt) at 100°C Min.	Kinematic Viscosity ⁽³⁾ , (cSt) at 100°C Max	High-Shear Viscosity ⁽⁴⁾ , (cP) at 150°C and 10 ⁶ S ⁻¹ Min.
0W	3250 at -30	60 000 at -40	3.8	-	-
5W	3500 at -25	60 000 at -35	3.8	-	-
10W	3500 at -20	60 000 at -30	4.1	-	-
15W	3500 at -15	60 000 at -25	5.6	-	-
20W	4500 at -10	60 000 at -20	5.6	-	-
25W	6000 at -5	60 000 at -15	9.3	-	-
20	-	-	5.6	<9.3	2.6
30	-	-	9.3	<12.5	2.9
40	-	-	12.5	<16.3	2.9 (0W-40, 5W-40, and 10W-40 grades)
40	-	-	12.5	<16.3	3.7 (15W-40, 20W-40, 25W-40, 40 grades)
50	-	-	16.3	<21.9	3.7
60	-	-	21.9	<26.1	3.7

All values are critical specifications as defined by ASTM D 3244.

1cP=1 mPa.s; cSt=1mm²/s

Notes:

- (1) ASTM D 5293.
- (2) ASTM D 4684. Note that the presence of any yield stress detectable by this method
Constitutes a failure regardless of viscosity.
- (3) ASTM D 445.
- (4) ASTM D 4683, CEC L-36-A-90 (ASTM D 4741).