

UNIVERSAL ENGINE OILS

TDS 591-2017



Description of index	Standard values		
	SAE 15W-30 API SF/CC	SAE 15W-40 API SF/CC	SAE 20W-50 API SF/CC
Kinematic viscosity at 100°C, mm ² /c, within	11,0-12,5	13,5-15,0	18,5-20,5
Dynamic viscosity at minus 20°C, mPa's, not more than	7000	7000	9500
Viscosity index, not less than	120	120	120
Mass fraction of mechanical impurities, %, not more than	0,015	0,015	0,015
Base number, mg KOH per 1g of oil, not less than	6,0	6,0	4,0
Mass fraction of sulfurate ash, %, not more than	1,3	1,3	1,1
Mass fraction of water, %, not more than	0,03 traces	0,03 traces	traces 0,03
Flash point determined in an open cup, °C, not lower than	210	210	220
Pour point, °C, not higher than	minus 25	minus 20	minus 15
Evaporation at 250 °C during 1 hour, %, not more than	15	15	15
Corrosion resistance on copper plate M1 at 100°C, 3 hours, points, not more than	1B 1b	1B 1b	1B 1b
Color with dilution in the 15:85 ratio, ASTM color, not more CNT units, not more than	4,0 4,0	4,0 4,0	2,5 2,5
Density at 20°C, g/cm ³ , not more than	0,900	0,905	0,900

NOTE - Sand and other abrasive substances are not allowed in mechanical impurities.