



API - Lubricant demand profile for motors in vehicles and machines

API-classifications for gas engines

SB	low strain
SC	motors construction year 1964 to 1971
SD	motors construction year 1968 to 1971
SE	motors from construction year 1972 stop and go-running
SF	motors from construction year 1981 für extended oil changes
SG	improved oxidation stability and motor cleanliness / 1988
SH	meets higher demands at evaporation loss, filterability, foam behaviour and flash point / 1993
SJ	improved cold start compatibility, extended oil changes
SL	improved power efficiency, valid from 7/2001

API-classifications for diesel engines

CA	low strain
CB	moderately strain
CC	light layed up diesel engines
CD	high layed up diesel engines
CD-Plus	high layed up diesel engines (amplified norm)
CE	SHPD diesel engine oil for layed up diesel engines (conditioned for gas engines)
CF-4	specification for fast-running 4 and 6 cylinder diesel engines. Complements the specification CE in oil consumption and piston cleanliness
CG-4	specification for highly-stressed vehicle motors
CH-4	specification for highly-stressed vehicle motors, meets Euro 3

API-classifications for gear oils

<u>API-class</u>	<u>MIL-specification</u>	<u>operating field / operating conditions</u>	<u>Manufacturers regulations (examples)</u>
GL1	-	low-stressed gearboxes	Volvo-Nkw
GL2	-	industry-/worm gear	
GL3	-	normal stressed gearboxes	Fiat
GL4	MIL-L-2105	highly stressed gearboxes	MAN 341
		low stressed hypoid gearing	MB Blatt 235.1
GL5	MIL-L-2105 B	highly-stressed hypoid gearbing,	MAN 342
	MIL-L-2105 C	gearboxes if mandatory / approved	MB Blatt 235.0
	MIL-L-2105 D		
MT-1	MIL-PRF-2105 E	unsynchroneous gearboxes in American Nkw	Eaton, Fuller