



Hicks Oils
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FORMULA 500

CF/SJ Monograde Diesel Motor Oils

Formula 500® CF-2, CF/SJ Diesel motor oils are for use in diesel engines under service conditions from mild to heavy duty with fuel of any sulfur level. The current formulations meet API Service Classifications up to CF, CF-2. Several viscosity grades are also suitable where Allison C-4 or Caterpillar TO-2 fluids are specified. Follow the performance specifications below.

These oils should not be used in Caterpillar TO-4 applications, two-cycle gasoline engines, aircraft engines, or EMD Diesel engines.

Performance Specifications:

Product Code Specification	1111 10W	1112 20W	1113 30	1114 40	1115 50
API CD*	X	X	X	X	X
API CD-II*			X	X	X
API CE*	X	X	X	X	X
API CF	X	X	X	X	X
API CF-2			X	X	X
API SH	X	X	X	X	X
API SJ		X	X	X	X
Allison C-4	P		P		
CAT TO-2	X	X	X	X	

X = Meets requirements * = Obsolete Service Category P = Meets performance requirements, follow viscosity

Typical Properties:

Product Code	1111	1112	1113	1114	1115
SAE Viscosity Grade	10W	20W	30	40	50
API Gravity	30.8	30.0	28.0	27.0	27.0
Viscosity, 40 C, cSt	44	63	95	135	200
Viscosity, 100 C, cSt	7.0	8.5	11.0	14.0	18.0
Viscosity Index	110	105	105	100	100
TBN	9.0	9.0	9.0	9.0	9.0
Sulfated Ash, wt%	1.20	1.20	1.20	1.20	1.20