



Schaeffer Manufacturing Co. DuQuoin
 845 N. Hickory
 DuQuoin, IL 62832

Sales: (314) 525-2568
 Operations: (618) 542-5431

F O R M U L A



CF, CF-2/SL Monograde Diesel Motor Oils

FORMULA 500® CF-2, CF/SL 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. Always follow manufacturer's recommendations for API specification and grade.

Performance Specifications:

Product Code	1111	1112	1113	1114	1115
Specification	10W	20W	30	40	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
API SL		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: CF, CF-2/SL Monograde Diesel Motor Oils					
Product Code	1111	1112	1113	1114	1115
SAE Viscosity	10W	20W	30	40	50
Kinematic Viscosity @ 100°C, cSt (ASTM D-445)	7.0	8.5	11.0	14.0	18.0
Kinematic Viscosity @ 40°C, cSt (ASTM D-445)	44	63	95	135	200
Viscosity Index (ASTM D-2270)	110	105	105	100	100
API Gravity (ASTM D-1298)	30.8	30.0	28.0	27.0	27.0
Sulfated Ash, % (ASTM D-874)	0.9	0.9	0.9	0.9	0.9
Total Base Number (ASTM D-2896)	7.5	7.5	7.5	7.5	7.5