



## Full Synthetic 5W-40 CK-4

**Auto 1® Full Synthetic 5W-40 CK-4 is formulated with synthetic base oils and ultra-premium detergent and additive technology. This technology has demonstrated a 1% to 3% fuel economy in field tests in OTR trucks in the United States. The optimized product still provides long-drain capability. The highly advanced additive chemistry complies with API CK-4 and numerous high quality OEM specifications.**

<u>PROPERTY</u>	<u>ASTM TEST METHOD</u>	<u>SAE 5W-40</u>
Viscosity at -30°C, cP	D-5293	6240
Viscosity at 40°C, cSt	D-445	92.00
Viscosity at 100°C, cSt	D-445	14.90
Viscosity Index	D-2270	170
Flash Point, COC, °C (°F)	D-92	220 (428)
Pour Point, °C (°F)	D-97	-45 (-49)
Color	D-1500	3.0
Gravity, °API	D-287	34.0
Sulfated Ash, % wt	D-874	1.0
Zinc, %	D-4951	0.13
Total Base Number (TBN)	D-2896	11.0
HT/HS, Cp	D-4683	3.90

Meets or exceeds the following specifications:

- API Service Classifications – CK-4, CJ-4
- Cummins – CES 20081, CES 20086
- Mack – EOS-4.5, EO-O Prem Plus '07, EO-N, T-11, T-12
- Caterpillar – ECF-2, ECF-3, C-13
- Detroit Diesel – DFS 93K218, DFS 93K222
- General Motors – 6.5L (RFWT)
- Navistar (International Harvester Company) – HEUI Foam
- Daimler – MB 228.31
- ACEA – E7-04, E2, E4, E9-2012
- MAN – M3575
- MTU – Type I, Type II
- Volvo – VDS-3, VDS-4, VDS-4.5
- JASO – DH-2
- Mercedes Benz – P228.3
- Global – DHD-1
- Renault – RLD-4, RLD-3
- John Deere – Plus-50
- Ford – WSS-M2C171-E, WSS-M2C171-F1