

## TECHNICAL DATA SHEET

**ECO MATIC 15W-40 CI-4+***Synthetic Diesel Engine Oil for Heavy-Duty & High-Output Engines*

API CI-4+ • API CH-4 • API SL

**PRODUCT DESCRIPTION**

ECO MATIC 15W-40 CI-4+ is a synthetic diesel engine oil formulated to meet the stringent API CI-4+ performance level — the highest category for heavy-duty diesel engines at the time of its development. It is designed for high-output turbocharged and naturally aspirated diesel engines operating under severe conditions, including high EGR (Exhaust Gas Recirculation) environments. Its advanced CI-4+ formulation ensures outstanding soot dispersancy, superior wear protection, and excellent high-temperature stability for extended drain intervals.

**APPLICATIONS**

- High-output turbocharged and naturally aspirated diesel engines in trucks, buses, and heavy equipment
- Engines with EGR systems requiring API CI-4+ specification oils
- Construction, agricultural, and mining heavy-duty diesel applications
- Commercial vehicles and fleet operators requiring extended drain intervals
- Available in 3.5L, 5L, 20L, and 200L pack sizes

**PERFORMANCE STANDARDS**

API CI-4+ • API CH-4 • API CG-4 • API CF-4 • API SL • ACEA E7

**FEATURES & BENEFITS**

- Meets API CI-4+ — highest soot control and engine protection for heavy-duty diesel
- Superior soot dispersancy prevents viscosity increase and filter plugging
- Outstanding anti-wear performance for turbocharger, pistons, and valve train
- Excellent thermal and oxidative stability for extended drain interval capability
- Strong TBN retention to neutralise acidic combustion by-products
- Backward compatible with API CH-4, CG-4, and CF-4 specifications
- Good shear stability — maintains viscosity in Grade 15W-40 under service conditions

**TYPICAL PROPERTIES**

TEST PARAMETER	TEST METHOD	TYPICAL VALUE
Appearance	Visual	Clear, Amber Liquid
SAE Viscosity Grade	—	15W-40
API Service Classification — Diesel	—	CI-4+
API Service Classification — Petrol	—	SL
Kinematic Viscosity @ 40°C (cSt)	ASTM D445	108
Kinematic Viscosity @ 100°C (cSt)	ASTM D445	15.2
Viscosity Index	ASTM D2270	140 min
Flash Point, COC (°C)	ASTM D92	225 min
Pour Point (°C)	ASTM D97	-27 max
Total Base Number (mg KOH/g)	ASTM D2896	12.0 min
Sulfated Ash (% wt)	ASTM D874	1.5 max

TEST PARAMETER	TEST METHOD	TYPICAL VALUE
Density @ 15°C (kg/L)	ASTM D4052	0.876
HTHS Viscosity @ 150°C (mPa.s)	ASTM D4683	3.5 min
Copper Corrosion @ 100°C, 3 hrs	ASTM D130	1B max

**STORAGE & HANDLING**

Store the product indoors and avoid direct sunlight or heat. Keep containers tightly closed when not in use. Avoid contact with skin and eyes. After skin contact, wash thoroughly with soap and water. Keep out of reach of children.

*DISCLAIMER: The information provided in this Technical Data Sheet is based on standard laboratory tests and is indicative only. Synergy Lubricant and Chemical makes no warranty regarding the accuracy of this data. Typical values may vary within acceptable production tolerances.*

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