

CODEX

Lubricants

Industrial High Standards Quality Performance

ALEXA

15W-40

API CI-4

HEAVY DUTY DIESEL ENGINE OIL

DIESEL SPECIAL

EXTENDED DRAIN

Up to 25,000 KM

SOOT CONTROL

Advanced Detergency

WEAR PROTECTION

Superior Anti-Wear

THERMAL STABILITY

High Temp Performance

COUNTRY OF ORIGIN: SOUTH KOREA

ISO 9001:2015 | ISO 14001:2015 | ACEA E7



PRODUCT OVERVIEW

CODEX ALEXA 15W-40 API CI-4 — Heavy Duty Diesel Engine Oil

WHAT IS CODEX ALEXA 15W-40?

CODEX ALEXA 15W-40 API CI-4 is a premium heavy-duty diesel engine oil formulated with high-quality mineral base stocks and an advanced additive package. Engineered specifically for modern high-speed, four-stroke engines operating under severe service conditions, ALEXA delivers exceptional protection against wear, soot, oxidation, and thermal breakdown.

Designed for both EGR-equipped and non-EGR diesel engines, ALEXA meets the stringent requirements of API CI-4 and ACEA E7, making it the ideal choice for commercial truck fleets, construction equipment, agricultural machinery, and mixed fleet operations.

KEY FEATURES

- ✓ API CI-4 / SL Certified
- ✓ ACEA E7 Compliant
- ✓ Extended Drain up to 25,000 KM
- ✓ Superior Soot & Sludge Control
- ✓ Excellent Wear Protection
- ✓ High Thermal & Oxidation Stability
- ✓ Strong Acid Neutralization (TBN 10.5)
- ✓ Wide Temperature Performance

WHY CHOOSE CODEX ALEXA?

FEATURE	CODEX ALEXA	STANDARD 15W-40
API Service	CI-4 / SL	CH-4 / CF-4
TBN (mg KOH/g)	10.5	8-9
Viscosity Index	≥ 128	110-120
Soot Handling	Excellent	Good
Drain Interval	Up to 25,000 KM	10,000-15,000 KM
Flash Point	≥ 220°C	200-210°C
Pour Point	≤ -27°C	-20 to -24°C
OEM Approvals	Multi-OEM	Limited

TECHNICAL SPECIFICATIONS

CODEX ALEXA 15W-40 API CI-4 — Technical Data Sheet

PHYSICAL PROPERTIES

PROPERTY	SPECIFICATION	TEST METHOD
Appearance	Bright & Clear, Amber	Visual
Density @ 15°C	0.880 - 0.890 kg/L	ASTM D1298
Kinematic Viscosity @ 40°C	110 - 120 cSt	ASTM D445
Kinematic Viscosity @ 100°C	14.0 - 15.5 cSt	ASTM D445
Viscosity Index	≥ 128	ASTM D2270
Flash Point (COC)	≥ 220°C	ASTM D92
Fire Point (COC)	≥ 240°C	ASTM D92
Pour Point	≤ -27°C	ASTM D97
Color (ASTM D1500)	L 3.0 - L 4.0	ASTM D1500
CCS Viscosity @ 26°C	6.500 cP	ASTM D5293

CHEMICAL & PERFORMANCE PROPERTIES

PROPERTY	SPECIFICATION	TEST METHOD
Total Base Number (TBN)	10.5 mg KOH/g	ASTM D2896
Sulfated Ash	1.3 wt%	ASTM D874
Zinc Content	0.14 wt%	ASTM D4951
Phosphorus Content	0.12 wt%	ASTM D4951
Calcium Content	0.25 wt%	ASTM D4951
HTHS Viscosity @ 150°C	≥ 4.0 cP	ASTM D4683
Foam Sequence I/II/III	0/0/0 mL	ASTM D892
Copper Corrosion (3h, 100°C)	1b (Pass)	ASTM D130
Rust Test (A)	Pass	ASTM D665A

NOTE: All values are typical and may vary slightly between production batches.
For exact batch data, request Certificate of Analysis (COA).

APPLICATIONS & OEM APPROVALS

Versatile Protection for Every Diesel Application

RECOMMENDED APPLICATIONS

ON-HIGHWAY TRUCKS Long-haul, regional, and urban delivery fleets with EGR and non-EGR diesel engines	CONSTRUCTION EQUIPMENT Excavators, bulldozers, loaders, graders operating in severe dusty conditions	AGRICULTURAL MACHINERY Tractors, harvesters, irrigation pumps with diesel or gasoline engines
MINING & QUARRYING Haul trucks, drilling rigs, crushing equipment under extreme load and temperature	MARINE DIESEL High-speed marine diesel engines for commercial fishing and transport	STATIONARY POWER Generator sets, compressors, pumps for industrial and backup power

MEETS OR EXCEEDS THE REQUIREMENTS OF

API CI-4 / SL	ACEA E7	JASO DH-1	GLOBAL DHD-1
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OEM SPECIFICATIONS & APPROVALS

OEM	SPECIFICATION
Caterpillar	ECF-2, ECF-1a
Cummins	CES 20071 / 72 / 76 / 77 / 78
Detroit Diesel	DDC 93K215, Power Guard 93K214
Mack	EO-N, EO-M Plus, EO-M Premium Plus
Volvo	VDS-3, VDS-2
Mercedes-Benz	MB 228.3, MB 229.1
MAN	M 3275-1, M 271
Renault	RLD-2, VI RLD-2
MTU	Type 2, MTL 5044
Deutz	DQC III-10
Allison	C4

ONE OIL. MULTIPLE APPLICATIONS. MAXIMUM PROTECTION.

PACKAGING & PERFORMANCE

Flexible Solutions for Every Fleet & Workshop

PACKAGING OPTIONS

PACKAGE	VOLUME	IDEAL FOR
Bottle	1 Litre	Motorcycles, small engines, top-up
Bottle	4 Litres	Cars, light trucks, retail
Jerry Can	20 Litres	Workshops, small fleets, service stations
Pail	200 Litres	Fleet operations, mining, construction
Drum	200 Litres	Standard industrial supply, distributors
IBC Tote	1,000 Litres	Large fleets, OEM fill, bulk consumers
Bulk Tanker	5,000+ Litres	Contract supply, integrated logistics

PERFORMANCE BENEFITS

SOOT CONTROL TECHNOLOGY

Advanced dispersant system keeps soot particles suspended, preventing abrasive wear and oil thickening. Extends filter life and maintains oil flow.

THERMAL & OXIDATION STABILITY

Resists breakdown at high operating temperatures, minimizing sludge, varnish, and deposit formation. Maintains viscosity throughout extended drain intervals.

WEAR PROTECTION

High-performance anti-wear additives protect cylinder liners, piston rings, bearings, and camshafts. Reduces maintenance costs and extends engine life.

ACID NEUTRALIZATION

High TBN (10.5) neutralizes combustion acids from high-sulfur diesel fuels. Protects bearings and extends oil drain intervals up to 25,000 km.

LOGISTICS & SUPPLY

Country of Origin: South Korea | Export Ports: Busan / Incheon
Lead Time: 2-4 weeks standard | Incoterms: EXW, FOB, CIF, DDP
Shelf Life: 5 years unopened | Storage: 0-40°C, dry, away from direct sunlight
Documentation: COA, COC, MSDS/SDS, Certificate of Origin, Export License

ABOUT CODEX LUBRICANTS

Precision Engineering from South Korea

CODEX Lubricants is a premier South Korean manufacturer of specialty industrial and automotive lubricants. With state-of-the-art blending facilities, advanced R&D laboratories, and rigorous quality control, CODEX delivers lubrication solutions that maximize engine life, minimize total cost of ownership, and ensure environmental responsibility across global markets.

CERTIFICATIONS & QUALITY STANDARDS

ISO 9001:2015

ISO 14001:2015

RoHS Compliant

REACH Registered

KOSHA Certified

API Licensed

PRODUCT PORTFOLIO

- CODEX ALEXA 15W-40 CI-4 -- Heavy Duty Diesel Engine Oil
- CODEX ALEXA 20W-50 CI-4 -- High Temperature Diesel Oil
- CODEX ALEXA 10W-40 CI-4 -- All-Season Diesel Engine Oil
- CODEX SYNTH 5W-40 CJ-4 -- Full Synthetic Diesel Oil
- CODEX GEAR OIL -- Automotive & Industrial Gear Oils
- CODEX ATF -- Automatic Transmission Fluids
- CODEX COOLANT -- Engine Coolants & Antifreeze
- CODEX GREASE -- Automotive & Industrial Greases

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