PRODUCT DATA SHEET

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ENEOS 15W40 CI-4/SL

SUPER DIESEL ENGINE OIL

Material Code: EMA1501

ENEOS 15W40 CI-4/SL Super Diesel Engine Oil is extra high performance Heavy- Duty Diesel Engine Oil specially developed for use in modern, low emission diesel engines, including those fitted with Exhaust Gas Re-Circulation (EGR) systems. This product meets the latest requirements of all major European, American and Japanese Engine manufacturers and offers exception and extended life to Diesel Engines operating on low or high sulphur Diesel. It is blended from selected base stocks and new generation performance additives.

❖ SPECIAL FEATURES.

1. Outstanding thermo- Oxidative stability reduces deposits and Oil thickening.
2. Excellent soot handling capability protects against soot induced viscosity increase and wear
3. High shear stability ensures viscosity control at elevated temperatures and reduces oil consumption and wear.
4. Superior protection against corrosive wear helps in sustaining engine durability.
5. Excellent TBN retention helps in countering harmful effects of corrosive exhaust gases and extending oil life.

❖ APPLICATIONS.

1. Turbocharged and naturally aspirated diesel engines used in on-highway applications including those fitted with EGR systems and meeting US 2004 emission norms introduced in 2002.
   Also suitable for Euro 4 vehicles that do not require low SAPS (Sulphated Ash, Phosphorous, Sulphur) oils (not fitted with Diesel Particulate Filters) and also in vehicles meeting Euro 3 and earlier emission norms.

2. Heavy duty Diesel Engines used in mining, construction agriculture & other off-highway applications for mixed fleet applications and gasoline engines, SAE 15W-40 oil is recommended.

❖ PACK SIZE.

1L, 5L, 20L, 208L

❖ PERFORMANCE LEVEL.

API-CI-4/SL, ACEA E7, Global DHD-1
API CH-4, CG-4, CF-4, SL, ACEA A3/B3, A3/B4, CUMMINS CES 20077, 20078,
CAT ECF-1a, MB 228.3, Volvo VDS-3,
MAN M3275, RENAULT RLD2,
DETROIT DIESEL93K215/14 , MTU TYPE 2
JASO DH1, MACK EO-M P/EO-N,
DEUTZ DOC II/III

❖ TYPICAL PROPERTIES

SAE Viscosity Grade **Quality Grade**	**15W-40** **CI-4/SL**
Appearance	**Amber**
Density (15°C), g/cm³	**0.8755**
Flash Point (COC), °C	**230**
Kinematic Viscosity (40°C), mm²/s	**110.00**
Kinematic Viscosity (100°C), mm²/s	**14.9**
Viscosity Index	**140**
Pour Point, °C	**-36**
TBN (HCL), mg KOH/g	**11.3**

Note: The Typical Properties may be changed without notice.

Handling Precautions

▼ **Follow these precautions when handling this product.**

Classification of the substance or preparation :	Not a dangerous preparation according to 1999/45/EC.
Most important adverse :	No adverse hazards.
Most important adverse human health effects :	None under normal conditions.
Precautionary Statements : Prevention	No naked lights. No smoking. Keep away from sources of ignition. Handle in accordance with good industrial hygiene and safety procedures.
Response	After inhalation : Assure fresh air breathing. Obtain medical attention if breathing difficulty persists. After contact with skin : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if irritation develops. After contact with eyes : Rinse immediately with plenty of water. Seek medical attention if irritation develops. After ingestion : DO NOT INDUCE VOMITING. Seek medical attention immediately. Other Information : If there is any suspicion of aspiration into the lungs either directly or as a result of vomiting, obtain medical advice.
Storage	Keep container closed when not in use. Keep at temperature not exceeding 45°C. Keep only in the original container in a cool, well ventilated place.
Disposal	Waste disposal : S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets. Dispose in a safe manner in accordance with local/national regulations. Waste-disposal procedures : See Directive 2001/118/EC Industrial waste number (EURAL) : 13 02 05 - mineral-based non-chlorinated engine, gear and lubricating oils. Contaminated packaging : Do not attempt to refill or clean containers without proper instructions. Do not cut , pressurise, weld, braze, solder, drill, grind or expose such containers to the heat, flame, sparks, static electricity or other sources of ignition. They may explode and cause injury or death.