

PRODUCT DESCRIPTION

Eco Diesel 15W-40 is an advanced semi synthetic heavy-duty diesel engine oil that delivers enhanced engine protection against wear and corrosion in severe operating conditions. Effectively minimizes the sludge, varnish and soot formation for a prolonged oil service life while maintaining its performance until the next oil drain. Excellent oxidation and shear stability which significantly contributes to engine performance and extended life.



Eco Diesel 15W-40 ensures maximum soot handling performance to deliver optimum engine cleanliness for a more durable engine life. Designed to meet the demanding requirements of most

OEMs in new and older engines of trucks, buses, construction machineries, farming equipment, mining, generators, fishing vessels, and other applications fitted with Exhaust Gas Recirculation (EGR) and SCR NOx reduction systems. Perfect for use in engines with or without Diesel Particulate Filters (DPF).

APPLICATION

Recommended for mixed fleets applications – diesel and gasoline engines. For new & old generation engines. Suitable for classic cars, trucks, light commercial vehicles, agricultural machineries and other on-road & off-road systems requiring a 15W-40 API CK-4 or API SP or ACEA E7 or ACEA E11 engine oils.

For diesel engines meeting EURO I, II, III, IV, V and VI emission requirements. Backward compatible with API CJ-4, CI-4 PLUS, CI-4 CH-4, CG-4, CF-4, and older specs.

WARRANTY

Eco Diesel 15W-40 meets or exceeds the OEM's warranty requirements of high-speed, 4-stroke diesel engines where API CK-4 and older diesel engine oils specs is required. Suitable for gasoline engines requiring API SP engine oil. TOTACHI® guarantees full compliance on the written specifications indicated on product labels.

CUSTOMER BENEFITS:

- **Durable Engine Life**
Effectively disperses soot and helps control wear for a well-protected engine, providing a good service life and minimal maintenance.
- **Reduced Wear**
Low temperature pumpability to protect engines from wear even during engine start up.
- **Extreme Engine Protection**
Enhanced protection against oil oxidation, viscosity loss, oil aeration, catalyst poisoning, particular filter blocking, engine wear, piston deposits, thermal degradation and viscosity increase to keep engine like new.
- **Maximized Oil Drain Intervals**
Thermally stable to minimize oil degradation which prevents oil thickening and sludge formation.
- **Mixed Fleet Application**
Enhances operational efficiency, reduces costs and improve longevity and performance of multiple vehicles and equipment.

MEETS SPECIFICATIONS & REQUIREMENTS OF:

- API CK-4/SP, CI-4 PLUS/SN PLUS
- ACEA E7/E11
- JASO DH-2
- Caterpillar ECF-3
- Ford WSS-M2C171-F1
- Daimler Trucks DTFR 15C100
- MB 228.31
- MTU Type 2.1
- Deutz DQC III-18 LA
- Allison TES 439
- Volvo VDS-4.5
- Mack EOS-4.5
- Renault Truck RLD-3
- Cummins CES 20086/20087/20100
- DFS 93K222/93K223
- MAN M3775
- CHINA D1

Suitable for use in various OEMs for heavy loaded high-speed four stroke diesel and gasoline engines of on-road and off- road vehicles.

CHARACTERISTICS	UNITS	VALUES	STANDARDS
SAE Grade	-	15W-40	SAE J300
Kinematic viscosity at: 40°C	cSt	105.00	ASTM D445
100°C	cSt	14.17	ASTM D445
Viscosity index	-	137	ASTM D2270
Cranking viscosity at -20°C	mPa-s	5525	ASTM D5293
Color	-	L2.5	ASTM D1500
Flash point	°C	244	ASTM D92
Pour point	°C	-42	ASTM D6892
Density at 30 °C	kg/L	0.8610	ASTM D4052
Total Base number	mgKOH/g	9.60	ASTM D2896

Before using this product, ensure it is consistent with OEM's recommendations for the equipment operating conditions and customer's maintenance practices.

TYPICAL TEST DATA

STORAGE AND HANDLING GUIDELINES

- Avoid exposing products to direct sunlight.
- Store in cool and dry places. Avoid exposing products to moisture.
- It is highly recommended to store drums indoors or under cover on pallets and racks.

HEALTH, SAFETY & ENVIRONMENT PROTECTION

Information on health, safety and environment protection is described in the product Safety Data Sheet (SDS). The SDS file contains details on potential hazards, precautions and first aid measures, as well as information on environmental impact and disposal of used products.

TOTACHI INDUSTRIAL CO. LTD. disclaims any liability in case the product is used with violation of these instructions and warnings or it is not used for its intended purpose. Before using product other than intended, consult your local TOTACHI[®] distributor.