

# DYNAMIC EXTRA LONG DRAIN

SAE 10W-40

## Product Description

DYNAMIC EXTRA LONG DRAIN is ultimate performance fully synthetic heavy-duty diesel engine oil medium ash formulation synthesized with DDL Booster Technology to enhance engine cleanliness and prevent sludge formation for ultimate performance of modern diesel vehicles meeting ultra low exhaust emission standard above Euro IV. It is formulated to compatible with after treatment devices (DPF, SCR), plus maximize oil drain intervals, superior film strength to maximize engine protection and enable fuel economy and transportation cost saving.

## Benefits

- Extends the oil drain interval, longer than in general engine oil, and reduces oil consumption resulted from the lower evaporation rate.
- Increases cleaning effectiveness by handling soot, sludge, and others combustion byproducts throughout oil life.
- Saves fuel consumption, provides wear and corrosion protection in all conditions.
- Strengthens oil film, and maintains stable viscosity, extra thermal, and oxidation stability.

## Applications

- Designed for ultimate performance of modern heavy-duty diesel engines meeting ultra low exhaust emission standard above Euro IV including common rail system of both on-highway and off-highway applications such as trucks, buses, trailers and heavy equipment.
- Recommended for all models of diesel pick up trucks and commercial vehicles equipped with EGR (Exhaust Gas Recirculation) or turbocharger.
- Suitable for diesel dual fuel gas engines.
- Can be used for gas engine of commercial vehicles running with NGV/CNG/LNG or LPG.

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## Typical Characteristics

Tests	Methods	Units	Results 10W-40
Density at 15 °C	ASTM D 4052	g/cm <sup>3</sup>	0.864
Kinematic Viscosity at 40 °C	ASTM D 445	mm <sup>2</sup> /s	91.0
Kinematic Viscosity at 100 °C	ASTM D 445	mm <sup>2</sup> /s	13.8
Viscosity Index	ASTM D 2270		154
Cold-cranking Simulator at -25 °C	ASTM D 5293	mPa.s	6,490
Total Base Number	ASTM D 2896	mg KOH/g	13.0
Flash Point (COC)	ASTM D 92	°C	232
Pour Point	ASTM D 5950	°C	-30
Sulfated Ash	ASTM D 874	% wt	1.0

## Performance Standards

- API CJ-4
- ACEA E4/E6/E7/E9-12
- JASO DH-2
- MB 228.51/228.31
- MAN 3477/3575/3271-1
- MTU Category 3.1 & 2.1
- VOLVO VDS-4
- RENAULT RLD-3 & RLD-2
- SCANIA LDF-3
- MACK EO-O Premium Plus & EO-N Premium Plus
- CUMMINS 20081
- DEUTZ DQC IV-10 LA

## Health and Safety

This product shows no significant health or safety hazard when used under the recommended applications and suitable handling.

Avoid the direct contact. Wash immediately after contact. Health and safety information is available on the Safety Data Sheet (SDS) which can be obtained from <http://pttlubricants.pttor.com>

**PTT LUBE SOLUTIONS** Professional Lubricant Service Partner



The product can cause some skin irritation and has flash point higher than 93.4°C

Note: Data and information contained in this publication are based on standard test under laboratory conditions and/or performance test. To consider the use of PTT Lubricants' products in particular application, customer is responsible for determining whether product and information are appropriate for customer conditions or should consult with PTT Lubricants' technical service division. The procedure of using any lubricant may differ or change depended on different machines and their manuals. Therefore, we recommend to read, understand and review the latest SDS in order to ensure the use of product is accomplished safety.

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