

PETRO FACTS



CO-OP® D-MO*



HEAVY-DUTY SYNTHETIC DIESEL MOTOR OIL

DESCRIPTION

CO-OP D-MO has an advanced motor oil formulation which provides superior performance, meeting or exceeding other competitive products and current API service classifications. Specific grades are approved for the most stringent and demanding North American and European service applications. CO-OP D-MO oil drain intervals can be extended past the engine manufacturer's normal recommendation. CO-OP D-MO is one of the finest diesel motor oils produced today.

FEATURES & BENEFITS

● EXTENDED SERVICE

CO-OP D-MO is approved for extended service (extended drain) intervals (i.e. John Deere, Mach, Volvo, Cummins, etc.).

● OXIDATION RESISTANCE

CO-OP D-MO's oxidation inhibitors reduce oil thickening and varnish build-up due to oxidation.

● ENGINE CLEANLINESS

CO-OP D-MO's unique mix of additives reduces harmful deposits and neutralizes harmful engine contaminants.

● VISCOSITY RETENTION

CO-OP D-MO's higher shear stability ensures multi-grade stay-in-grade under the most severe use.

● RUST PROTECTION

CO-OP D-MO provides superior rust and corrosion protection under the most severe conditions.

● EXTENDS ENGINE LIFE

Superior CO-OP D-MO maximizes engine life.

● FUEL ECONOMY

CO-OP D-MO's fuel economy performance meets engine manufacturer's requirements.

● WEAR PROTECTION

CO-OP D-MO's superior additives bond to metal surfaces, creating a protective film which averts wear.

● SOOT CONTROL

CO-OP D-MO reduces combustion chamber deposits and controls soot deposits.

● REDUCED OIL CONSUMPTION

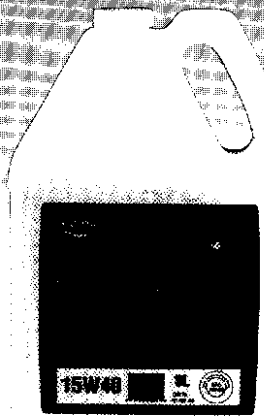
CO-OP D-MO's combination of shear stable components ensures reduced oil consumption.

● EMISSION TECHNOLOGY

CO-OP D-MO is designed to meet emission requirements into the next century.

● REDUCES COSTS

CO-OP D-MO reduces maintenance costs.

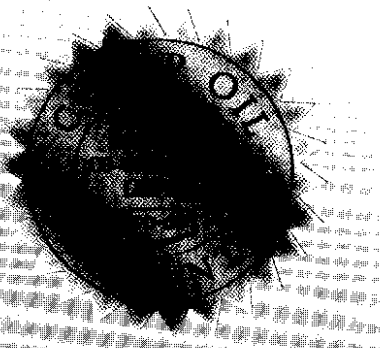


CO-OP D-MO

is available in:

- 12 x 1 litre cases
- 4 x 5 litre cases
- 2 x 10 litre cases
- 20 litre pails
- 110 litre drums
- 205 litre drums
- Bulk

(Note: Not all grades are available in every container size.)



THE OIL OF THE FUTURE AT TODAY'S PRICES

RECYCLABLE

WHEN FACILITY PERMITS



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with 100% recycled paper



LUBRICANTS



ALLISON
EXTENDED DRAIN APP
MILITARY SPECIFICATIONS
STABLE POUR
VISCOSITY @ 40° C
VISCOSITY @ 100° C
SULFATED ASH
ZINC
TBN (ASTM D2896)

QUALIFICATIONS

APPROVED API CLASSIFICATION

BRAND NAME/ SAE GRADE	CI-4	CH-4	CG-4	CF-4	CF-2	CF	SJ	SH	SL	C3-C4		°C	cSt	cSt	%	%	mg/g	
CO-OP D-MO																		
10W**						X				X	E	3	-45	35.0	6.0	1.0	0.10	9.0
20W-20*						X		X				3	-39	49.0	7.6	1.0	0.10	9.0
30**					X	X	X	X		X	E	3	-36	86.0	10.8	1.0	0.10	9.0
40**					X	X	X	X				3	-27	146.0	15.0	1.0	0.10	9.0
10W-30*	X	X	X	X		X		X		A,B,C D,E,G	1,2,3	-39	74.0	11.4	1.43	0.14	10.0	
15W-40*	X	X	X	X	X	X	X	X	X	A,B,C D,E,G	1,3	-39	122.0	15.3	1.43	0.14	10.0	

ADDITIONAL QUALIFICATIONS

In the appropriate viscosity grade, CO-OP D-MO engine oils exceed the requirements of:

- **American Petroleum Institute (API)**
CI-4, CH-4, CG-4, CF-4, CF-2, CF/SJ, SH, SL
Also Meets Obsolete Specifications
CE, CD, CD-II, CC, SG, SF

● Gasoline Engines

- Ford M2C-153E
- GM6094M (608M) (2), (6049M) (2)
- Chrysler MS 6982 and its '89 model year equivalent

● HD Transmissions

- Allison C-3/C-4
 - Caterpillar CD/TO-2/TO-2
- (1) SAE 30, 40, and 15W40
(2) Obsolete

● Superior Diesel Engine Mfg.

- Cummins • Volvo • Mercedes Benz
- MTV • Mack

EXTENDED SERVICE (EXTENDED DRAIN)

- A ACEA E3/B3/A3/E5
- B Cummins CES 20071/2/6/8
- C VOLVO - VDS/VDS2/VDS3

- D Mercedes Benz 228.1 & 3
 - E Caterpillar TO2
 - F MTU Type 1 & 2
 - G Mack EO-N Premium Plus
- ** API Licensed Oil

NOTE: Approved for extended drain.

APPLICATIONS

HEAVY-DUTY DIESEL ENGINES

● High-output Diesels

Allis Chalmers, J.I. Case, Caterpillar, Continental, Cummins, John Deere, Detroit Diesel, Ford, International Harvester/Navistar, Mack, Perkins, White.

● Mid-range Diesels

Deutz, Hino, Komatsu, Kubota, Mercedes, Renault, Scania, Volvo.

MILITARY SPECIFICATIONS

1. Mil-L-2104G
2. Mil-L-46152E (Obsolete)

OBsolete MILITARY SPECIFICATIONS

3. Mil-L-2104 B, C, D, E, F

● Light-duty Diesel Engines

Passenger cars and trucks, domestic and imported.

● Gasoline Engines

Passenger cars and trucks, domestic and imported that require an "SJ" approved oil.

● Hydraulics

In the correct viscosity grade, CO-OP D-MO offers excellent anti-wear hydraulic performance.