

## JICHUAN SUPERGARD MOTOR OIL

A SUPER LONG DRAIN 14 TBN DIESEL ENGINE OIL API SERVICE CI-4 /  
SL

### PRODUCT DESCRIPTION:

JICHUAN SUPERGARD MOTOR OIL is a super premium heavy duty diesel engine oil designed to meet the warranty requirements of most manufacturers of diesel engines equipped with EGR valves and was specifically developed for diesel engines operating on high sulfur fuels. The high alkaline reserve (TBN) effectively protects bearings and other engine surfaces from the corrosive effect of acids formed by the combustion of high sulfur fuels. Recommended for extended drain service when suggested by original equipment manufacturer. This motor oil is a blend of highly refined base oils and specially selected additives designed to provide excellent performance in all recommended applications. Contains effective detergent-dispersant to keep sludge and varnish deposits to a minimum. Additionally fortified with oxidation-corrosion inhibitors, high temperature anti-wear additives and foam inhibitors, to protect vital engine parts from scuffing and protect bearings from corrosion.

### TYPICAL USES:

- JICHUAN SUPERGARD MOTOR OIL SAE 15W-40 exceeds the Service Classifications CI-4/SL, SAE grades 30 & 40 exceed CF/CF-2/SL. These products are recommended for diesel engines using high sulfur fuels.
- Also recommended for use as "long drain" motor oil. Especially cost effective when used in conjunction with an effective used oil analysis program.
- Exceeds requirements of Caterpillar Series 3 and recommended when sulfur content of fuel is unknown or exceeds 0.50%.
- Exceeds Mack T8E & T10 specification. Mack's preferred recommendation is SAE Grade 15W-40.
- Meets Mack EO-N Premium Plus, EO-M, EO-M Plus, EO-L Plus and EO-L requirements.
- Meets and exceeds service requirements for Cummins

Shanghai Jichuan Trading Co.,Ltd.

Add: No 1201, Yin Hai Building, Caoxi Road, Xuhui District, Shanghai

24h Hotline: 15900706965

Website: [www.pingyiao.com](http://www.pingyiao.com)

Fax: (86)021-64513829

E-mail: [info@jichuan.sh.cn](mailto:info@jichuan.sh.cn)

Tel: (86)021-64820099

engines (Cummins NTC 400).

- Recommended for all turbo-charged engines where manufacturer specified a CI-4, CH-4, CG-4, CF, S-3 or Mil-L-2104D or Mil-L-2104E level oil.
- Not recommended for use in EMD engines requiring zinc-free lubricating oils.
- Meets Volvo VDS requirements (VDS-2, VDS-3)
- Can be used in gasoline engines; however, lower ash SG quality motor oils are the preferred recommendation.
- SAE Grades 30 and 15W-40 meet the requirements of Allison C-4 torque fluid and Caterpillar TO-2.
- SAE Grade 15W-40 meets Cummins 20076 and 20077 requirements. SAE15W-40 meets MB228.3.
- ACEA E2 (15W-40 only), B3 and A2, DHD-1 requirements.

## FEATURES:

- High TBN/Alkaline Reserve - Effectively neutralizes corrosive acids to protect bearings and other vital engine surfaces.
- Minimizes ash deposits in combustion chamber and valve surfaces.
- Highly oxidation stable - Protects engine against sludge and varnish deposits.
- High alkaline reserve permits extending drain interval to maximum allowed by engine manufacturer.
- Effective anti-scuff additive protects cam lobes and other highly loaded parts from wear.
- 14 TBN exceeds Caterpillar's 10 TBN minimum for service when sulfur content of diesel fuel is unknown.
- Designed to meet 2002 emission standards and beyond.

## TYPICAL INSPECTIONS

GRADE,SAE	15W-40	30	40
GRAVITY,°API	30.0	29.8	29.4
FLASHPOINT,°F.	440	450	460
FIREPOINT,°F.	485	480	515
POURPOINT,°F.	-25	+10	+10
VISCOSITY:			
SUS@100°F.	503	432	636
SUS@210°F.	76	66	80
cSt@40°C.	109	92.5	137
cSt@100°C.	14.6	12.0	15.5

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VISCOSITYINDEX	139	122	116
COLOR,D-1500	3.0	3.0	3.0
SULFATEDASH,WT.%	1.67	1.67	1.67
ZINC,WT.%	0.13	0.13	0.13
TBN,D-2896	14	14	14

VALUES SHOWN HERE ARE TYPICAL AND MAY VARY

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